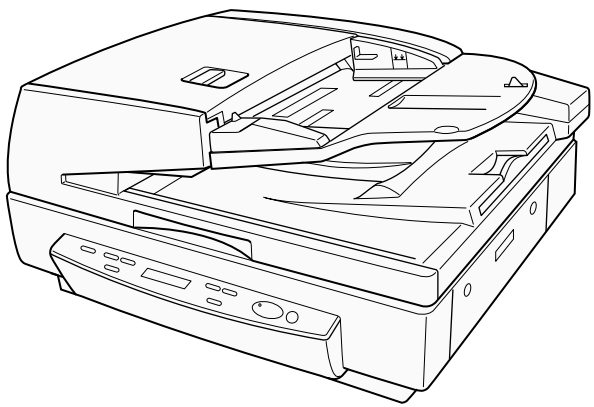
Canon

imageFORMULA

DR-7090C

Reference Guide



Please read this manual before using the scanner.
After you finish reading this manual, keep it in a safe place for future reference.

ENGLISH

READ CAREFULLY BEFORE OPENING THE SEALED DISK PACKAGE

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FCC REGULATIONS (For 120 V model)

Document Scanner, Model M11067
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

– Reorient or relocate the receiving antenna.
– Increase the separation between the equipment and receiver.
– Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
– Consult the dealer or an experienced radio/TV technician for help.

Use of shielded cable is required to comply with class B limits in Subpart B of Part 15 of FCC Rules.
Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.
Canon U.S.A. Inc.
One Canon Plaza, Lake Success NY 11042, U.S.A.
Tel. No. (516)328-5000

RADIO INTERFERENCE REGULATIONS (For 120 V models)

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled “Digital Apparatus”, ICES-003 of the Industry Canada.

RÈGLEMENT SUR LE BROUILLAGE RADIOÉLECTRIQUE (For 120 V models)

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: “Appareils Numériques”, NMB-003 édictée par l’Industrie Canada.

International ENERGY STAR® Office Equipment Program



As an ENERGY STAR® Partner, Canon Electronics Inc. has determined that this machine meets the ENERGY STAR® Program guidelines for energy efficiency.

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European Union (and EEA) only.



This symbol indicates that this product is not to be disposed of with your household waste, according to the WEEE Directive (2002/96/EC) and your national law. This product should be handed over to a designated collection point, e.g., on an authorized one-for-one basis when you buy a new similar product or to an authorized collection site for recycling waste electrical and electronic equipment (EEE). Improper handling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the effective usage of natural resources. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, waste authority, approved WEEE scheme or your household waste disposal service. For more information regarding return and recycling of WEEE products, please visit www.canon-europe.com/environment.
(EEA: Norway, Iceland and Liechtenstein)

Für EMVG

Dieses Produkt ist zum Gebrauch im Wohnbereich, Geschäfts-und Gewerbebereich sowie in Kleinbetrieben vorgesehen.

Für 3. GPSGV

"Maschinenlärminformations-Verordnung 3. GPSGV: Der höchste Schalldruckpegel beträgt 70 dB(A) oder weniger gemäß EN ISO 7779"

Model Names

The following names may be provided for the safety regulations in each sales region of the Document Scanner.
DR-7090C: Model M11067

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Thank you for purchasing the Canon imageFORMULA DR-7090C Document Scanner. Please read this and the following manuals thoroughly before using the scanner to become acquainted with its capabilities and make the most of its many functions.
After reading the manuals, store them in a safe place for future reference.

Manuals for the Scanner

The documentation for the scanner consists of the *Easy Start Guide* and the *Reference Guide* (this manual) (supplied with the scanner), the *User Manual*, and the *CapturePerfect3.0 Operation Guide*, which are provided in electronic form and registered in the menu during software installation.

Easy Start Guide

This manual describes the procedures for setting up the scanner for use. Please follow the procedures in the *Easy Start Guide* to set up the scanner.

Reference Guide (This Manual)

This manual consists of the basic scanner operating instructions extracted from the *User Manual*.

User Manual

This manual consists of two sections: Hardware and Software.
The Hardware section provides general information about the scanner operational settings, maintenance, and troubleshooting.
The Software section describes how to use the ISIS/TWAIN driver with the scanner, and how to set up job registration tools.

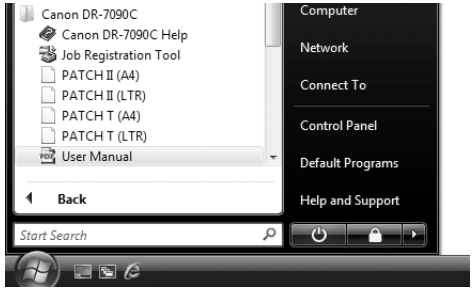
CapturePerfect 3.0 Operation Guide (Electronic Manual)

This is the operation guide for CapturePerfect 3.0, the Canon document scanner application program.

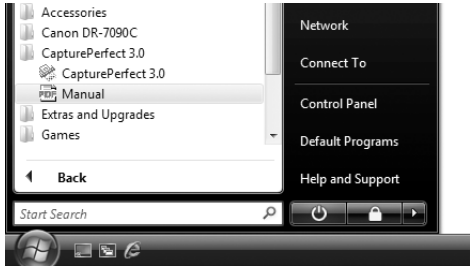
Hint

- The User Manual and the CapturePerfect 3.0 document files are installed in the following locations during software installation.

User Manual



CapturePerfect 3.0 Operation Guide



- Electronic versions of all manuals are available for viewing from the Setup CD.

Symbols Used in This Manual

The following symbols are used in this manual to explain procedures, restrictions, handling precautions, and instructions that should be observed for safety.

WARNING

Indicates a warning concerning operations that may lead to death or injury to persons if not performed correctly. To use the scanner safely, always pay attention to these warnings.

CAUTION

Indicates a caution concerning operations that may lead to injury to persons, or damage to property if not performed correctly. To use the scanner safely, always pay attention to these cautions.

IMPORTANT

Indicates operational requirements and restrictions. Be sure to read these items carefully to operate the scanner correctly, and avoid damage to the scanner.

Hint

Indicates a clarification of an operation, or contains additional explanations for a procedure. Reading these notes is highly recommended.

How This Manual is Organized

This manual consists of the following chapters.

Chapter 1 Before You Start Using the Scanner
Provides an overview of the DR-7090C

Chapter 2 Basic Operation
Describes the basic uses of the DR-7090C

Chapter 3 Maintenance
Describes routine cleaning and roller replacement

Chapter 4 Practical Examples
Describes displayed messages and troubleshooting solutions

Chapter 5 Appendix
Provides a list of specifications and support information

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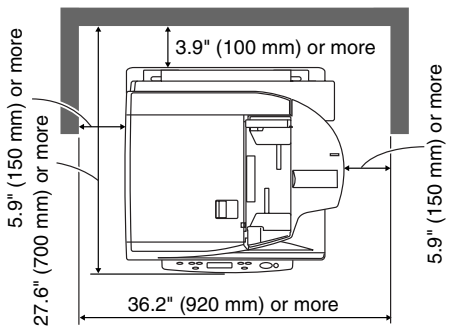
1. Important Safety Instructions

To ensure the safe operation of this scanner, be sure to read the safety warnings and precautions described below.

Installation Location

The performance of this scanner is affected by the environment in which it is installed. Make sure that the location where the scanner is installed meets the following environmental requirements.

- Provide adequate space around the scanner for operation, maintenance, and ventilation.

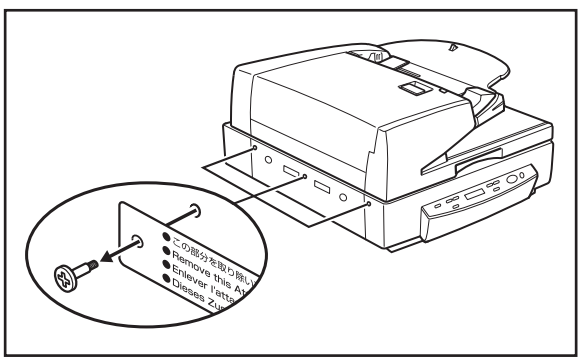


- Avoid installing the machine in direct sunlight. If this is unavoidable, use curtains to shade the scanner.
- Avoid locations with excessive dust or cigarette smoke. Dust and smoke can have negative effects on the inner parts of the scanner.
- Avoid warm or humid locations, such as in the vicinity of a water faucet, water heater, or humidifier, and avoid locations where the fumes from ammonia, paint thinner, or other volatile chemicals may be present.
- Avoid locations that are subject to vibration.
- Avoid exposing the scanner to rapid changes in temperature. If the room in which the scanner is installed is cold but rapidly heated, water droplets (condensation) may form inside the scanner. This may result in a noticeable degradation in scanning quality.

 The following conditions are recommended for optimal scanning quality:
 Room temperature: 15 °C to 30 °C (59 °F to 86 °F)
 Humidity: 25% to 80% RH
- Avoid installing the scanner near equipment that generates a magnetic field (e.g. speakers, televisions, or radios).

Removing the Transportation Screw

Three transportation screws are preinstalled at the factory to secure the scanner's optical unit and protect it from damage caused by vibration and shock during shipment. Make sure to remove these screws before using the scanner.

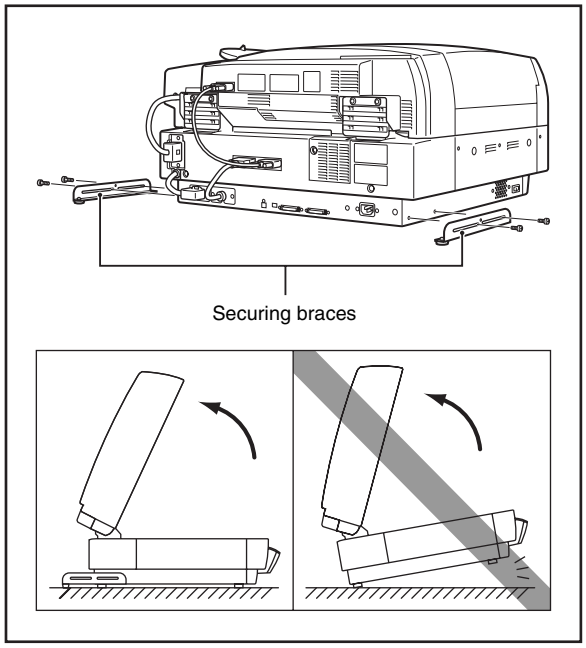


CAUTION

- If you turn the scanner ON without removing the transportation screws, error code E2020001 appears. Turn the power OFF, and remove the transportation screws and tag.
- As the transportation screws are necessary when transporting the scanner, do not throw them away. Make sure to store them for later use.

Installing the Securing Braces

The securing braces prevent the scanner from tipping backward when the feeder is open. Make sure to install the securing braces before using the scanner.

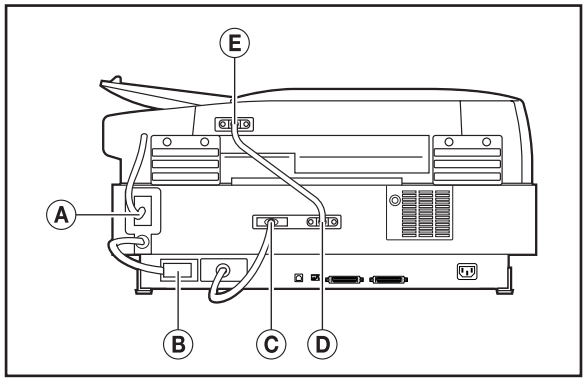


Power

- Connect only to a power outlet of the rated voltage and power supply frequency (either 120 V, 60 Hz or 220-240 V, 50/60 Hz, depending on your region).
- Do not use the scanner with a power supply that is not rated for the specified voltage. Doing so might cause fire or electric shock.
- Do not connect other electrical equipment to the same power outlet to which the scanner is connected. Also, when using an extension cord, make sure that the extension cord is rated for the current requirements of the scanner.
- The power cord may become damaged if it is often stepped on or if heavy objects are placed on it. Continued use of a damaged power cord can lead to an accident, such as a fire or electrical shock.
- Never bundle the power cord or wrap the cord around an object, such as a table leg.
- Do not pull directly on the power cord. When disconnecting the power cord, grasp the plug and remove it from the outlet.
- Keep the area around the power plug clear of objects so that the power cord can be disconnected easily in an emergency.
- If you have any questions regarding the power supply, contact your local authorized Canon dealer or service representative for further information.

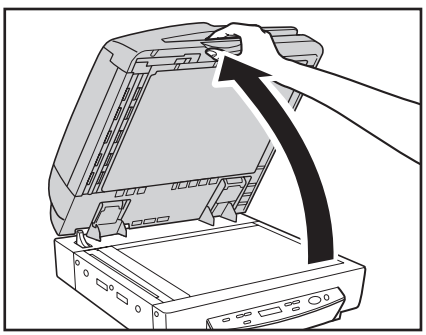
Checking the Rear Cables

Before connecting to the computer, make sure that cable connectors Ⓐ to Ⓔ are properly connected at the rear of the scanner.

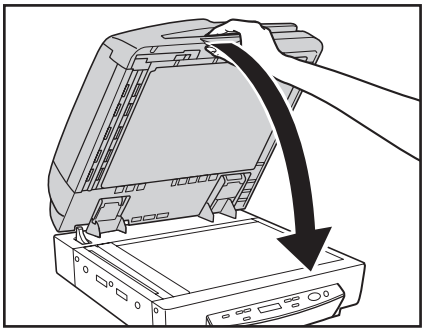


Opening and Closing the Feeder

● Open the feeder carefully and slowly, taking care to avoid letting the feeder fall over backwards.



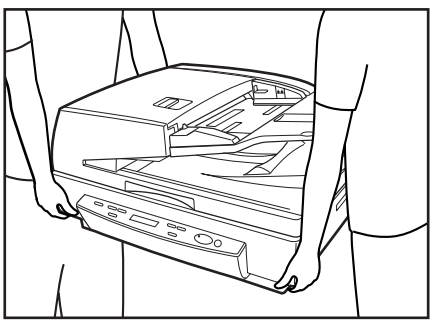
● Close the feeder carefully and slowly, taking care to avoid pinching your fingers.



● To prevent the scanner from tipping backward when the feeder is open, install the securing braces. (See p. 3.)

Moving the Scanner

● The scanner weights about 41 kg (90.4 lb). To lift or move the scanner, always use two people, one on each side. Never attempt to lift the scanner by yourself. You could drop the scanner or pinch your fingers, resulting in personal injury or damage to the scanner. Remember to be extra careful when moving it.

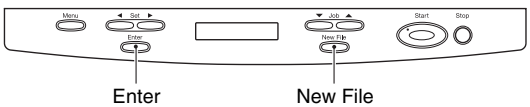


● Make sure to disconnect the interface cable and power cord when moving the scanner. If the scanner is carried with these items connected, the plugs and connectors may be damaged or cause the scanner to fall and result in personal injury or damage to the scanner.

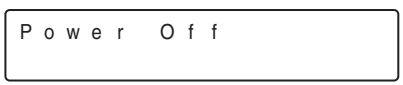
■ Installing the Transportation Screws

When moving the scanner, you must secure the optical unit using the three transportation screws that you removed. Use the following procedure to return the optical unit to its default position and install the transportation screws.

1. Connect the power cord.
2. Turn the power switch ON while holding down the Enter and New File keys. (See p. 13.)



3. Continue to hold down the Enter and New File keys until “Power Off” appears on the display panel, and then turn the power switch OFF.



4. Secure the optical unit by installing the three transportation screws.

Handling

⚠ WARNING

Note the following precautions whenever using the scanner. Failure to do so may result in a fire or electric shock.

- ■ Never place alcohol, benzene, paint thinners, or other flammable substances near the scanner.
- ■ Do not cut, damage, or modify the power cord. Do not place heavy objects on the power cord, and do not pull or excessively bend the power cord.
- ■ Never connect the power cord when your hands are wet.
- ■ Do not connect the scanner to a multiplug power strip.
- ■ Do not knot or coil the power cord, as this may result in a fire or electric shock. When connecting the power cord, make sure that the power plug is securely and completely inserted into the power outlet.
- ■ To use a reel-type extension cord, unwind all of the cord from the reel. Long-term operation with the cord wound on the reel may cause the cord to overheat and could cause a fire.
- ■ Do not use power cords other than the power cord provided with this scanner.
- ■ Never try to take the scanner apart or modify it in any way, as this is dangerous and may lead to a fire or electric shock.
- ■ Do not use flammable aerosol sprays products near the scanner.
- ■ When cleaning the scanner, turn the power switch OFF and disconnect the power cord from the power supply.

- Some parts can only be cleaned when the power is turned ON. In these cases, be careful to avoid electric shock.
- Clean the scanner using a slightly dampened cloth which has been well wrung out. Never use alcohol, benzene, paint thinner, or any other flammable substances.
- If the scanner makes strange noises, or gives off smoke, heat, or strange odors, or the scanner does not function or other abnormalities occur when you use the scanner, immediately turn the power switch OFF, and disconnect the power plug from the power outlet. Then, contact your local authorized Canon dealer or service representative for further information.
- Do not drop the scanner, or subject it to impact or strong shock. Should the scanner ever become damaged, immediately turn the power switch OFF, and disconnect the power plug from the power outlet. Then, contact your local authorized Canon dealer or service representative to have the unit serviced.
- Before moving the scanner, make sure to turn the power switch OFF, and disconnect the power plug from the power outlet.
- **Notice to Cardiac Pacemaker Users**
 This product emits low level magnetic flux.
 If you use a cardiac pacemaker and feel abnormalities, please be away from this product and consult your doctor.

⚠ CAUTION

- Do not install the scanner on a surface that is unstable or tilted, or in an area subject to excessive vibrations, as this may cause the scanner to fall, resulting in personal injury or damage to the scanner.
- Do not block the ventilation openings. Doing so could case the scanner to overheat, creating a risk of fire.
- Keep all liquids, beverages, or any type of liquid, and clips, staples, necklaces, or other metal objects away from the scanner. If you accidentally spill liquid or drop a metal object into the scanner, turn OFF the power immediately and disconnect the power cord from the power outlet. Then, contact your local authorized Canon dealer or service representative to have the unit serviced.
- Do not locate the scanner in a humid or dusty location. Doing so may cause a fire or electric shock.
- Do not place objects on top of the scanner. Such objects may tip or fall over, resulting in personal injury.
- When unplugging the power cord, grasp it firmly by its plug. Do not pull directly on the power cord, as this may damage or expose the cord's internal wiring, resulting in a fire or electric shock.
- Leave sufficient space around the power plug so that it can be unplugged easily. If objects are placed around the power plug, you will be unable to unplug it in an emergency.
- Do not allow water or flammable substances (alcohol, paint thinner, benzene, etc.) to spill into the scanner, as this may result in a fire or electric shock.

■ Turn OFF the power switch for safety when not using the scanner for a long period of time, such as overnight. Also, turn OFF the power switch, and disconnect the power cord from the power outlet for safety when the machine will not be used for an extended period of time, such as during consecutive holidays.

■ Do not wear loose clothing or jewelry that may get caught in the scanner while you are using it. This may result in personal injury. Be extra careful of neckties and long hair. If anything becomes caught in the scanner, immediately disconnect the power cord to stop the scanner.

■ Be careful when placing paper in the scanner and when removing jammed paper. It is possible to cut your hand on the edge of a sheet of paper.

■ Do not open the feeder cover while the scanner is operating. Doing so might result in a malfunction or injury.

■ Do not directly touch the pins and contacts on the scanner's connector with your hands. Doing so might result in a malfunction.

■ Open the feeder carefully and slowly, taking care to avoid letting it fall over backwards. Failure to do so might result in a malfunction or personal injury.

■ Close the feeder carefully and slowly, taking care to avoid pinching your hands. Failure to do so might result in a malfunction or personal injury.

■ When scanning a thick book or similar item from the flatbed (platen glass), avoid pressing down hard on the feeder. Doing so might damage the glass and create the risk of a malfunction or personal injury.

■ Never place any object other than documents to be scanned onto the scanner's flatbed (platen glass). Doing so might result in a malfunction or personal injury.

Disposal

● When disposing of this scanner, make sure to follow all local ordinances and laws or consult with the retailer who sold you the scanner.

2. Features

The main features of the DR-7090C are described below.

Scanner Features

- High-speed scanning
 The feeder supports scanning of LTR/A4-size documents at speeds up to 70 pages per minute.
- Single-pass duplex (two-side) scanning
 When scanning two-sided documents with the feeder, the front and back sides of the document are scanned simultaneously.
 When the Long Document mode is set to ON in the user mode settings, two-sided documents are scanned one side at a time.
- Flatbed scanning
 Flatbed scanning is also supported for thin paper, paper that does not feed properly, magazines, bound documents, and other documents that cannot be scanned using the feeder.
- Feeding capacity of up to 100 pages
 The paper feed tray allows you to load up to 100 sheets of standard copy paper at one time.
- Variety of Scanning Modes
 The scanner is equipped with six scanning modes: Black and White, Error Diffusion, Advanced Text Enhancement, Advanced Text Enhancement II, 256-Color Grayscale, and 24-Bit Color.
 * Advanced Text Enhancement can clarify scanned text by processing background or foreground colors.
- Count-Only Mode
 When operating the scanner as a stand-alone device, this mode counts the number of loaded document sheets.
- Long Document Mode
 Document sheets up to 24.8" (630 mm) long can be scanned with Paper Size Detection.
- Job Function
 Scanning conditions and the saving destination for image files are registered with the job, so you can scan using only control panel key operations. (See “About the Job Function” on p. 25.)
- User Mode
 The User Mode functions can be employed to set the scanner for practically any condition. For details on the User Mode settings, refer to the *User Manual*.

Detection Functions

● Auto Paper Size Detection

The document page size is detected before scanning.



Fixed-Size Scanning

Auto-Size Detection Scanning

● Text Orientation Detection

The text orientation on each page is detected, and the scanned image is rotated in 90-degree increments as necessary for normalization.



Landscape Document (Scanned Vertically)

Image After Text Orientation Detection

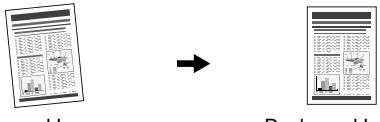
IMPORTANT

The text orientation detection functions may not perform properly depending on the document type.

Image Processing

● Deskew

The scanner straightens an image when it recognizes from the image that the document page was fed askew.



Skewed Image

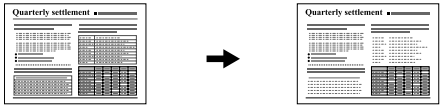
Deskewed Image

IMPORTANT

Deskew may not function properly when scanning only specified areas of a document page.

● Dropout and Color Enhancement Functions

The scanner is equipped with drop-out and enhancement functions that enable you to specify one color (red, blue, or green) to be omitted (dropped out) or enhanced, respectively, while scanning.



Color Document

Image with Red Drop-Out set (red filtered)

● Remove Binder Holes

Erases the shadows that appear on scanned images form binding holes on the original document.

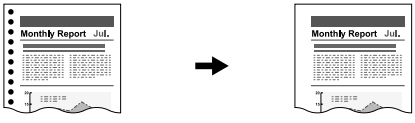
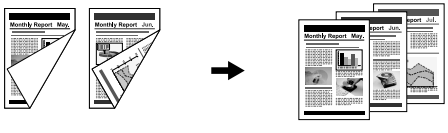


Image with Binding Holes

Image with Binding Holes Removed

● Skip Blank Page

The scanner scans both sides of a document and skips saving the image of any side it determines to be a blank page.



Two-Sided Documents with a Blank Side

Images with Blank Page Skipped

● MultiStream Function

The scanner supports MultiStream, which, depending on the software application, can create two images with different scanning conditions from a single scan pass. However, this function is only available when using CapturePerfect 3.0 (supplied with the scanner) or another application program that supports the Multi-Stream function.



Document to be Scanned

(150 dpi, Color)
(300 dpi, Black & White)
Two Types of Output Image

● Patchcode Support

Patch code sheets inserted between document pages can be detected for batch separation.

Options

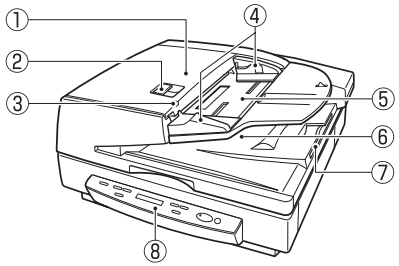
● Stamping

This feature automatically marks the trailing edge of a scanned document page with a stamp to indicate that is has been scanned. (See “Optional Products” on p. 14.)

3. Names and Functions of Parts

The names and functions of the DR-7090C parts are shown below.

Feeder



① Feeder Cover
Open this cover to clear document jams and clean the rollers.

② Opening Lever
Operate this release lever when opening or closing the feeder cover.

③ Document Set Indicator
This indicator lights when there is a document in the document feeder tray. When a paper jam occurs, this indicator flashes. (See p. 35.)

④ Slide Guide
Adjust this guide to the marking on the document size label that indicates the applicable document size.

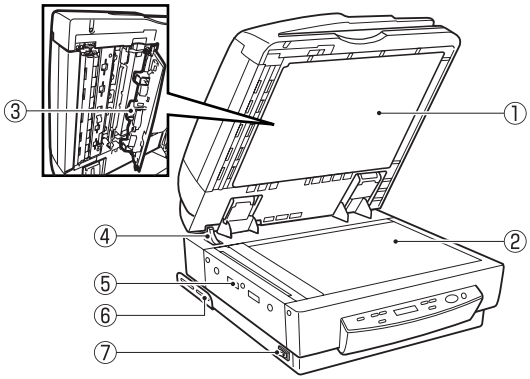
⑤ Document Feeder Tray
Load documents to be scanned here.

⑥ Document Eject Tray
Scanned documents are ejected here. Open the document feeder tray to remove ejected documents.

⑦ Eject Tray Extension

⑧ Operation Panel (See p. 13.)

Flatbed



① Pressure Board (Black)
This board presses the document page against the glass during scanning.

② Flatbed (Platen Glass)
When placing the document onto the platen glass, align it with the arrow in the upper left corner of the glass.

③ Scanning Area Cleaning Tool
Use this when cleaning the scanning area inside the feeder.

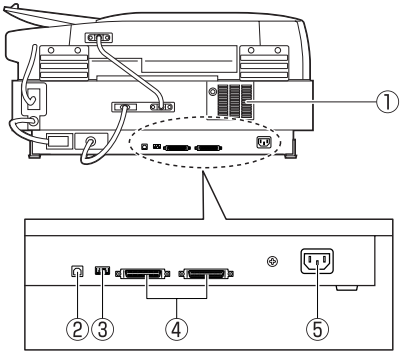
④ Opening Sensor
This sensor detects whether the feeder is open or closed.

⑤ Air Vents

⑥ Securing Brace
The securing braces prevent the scanner from tipping backward when the feeder is open. (See p. 3.)

⑦ Power Switch

Rear



① Air Vents

② USB Connector
Connect a Hi-Speed USB 2.0 compatible USB cable here.

③ DIP Switches
Configure these switches to specify the SCSI ID or terminator ON or OFF.

④ SCSI Connectors
Connect a SCSI cable (50-pin half pitch, pin type) here.

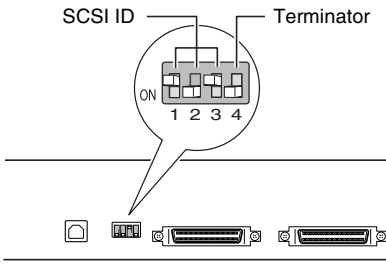
⑤ Power Cord Connector
Connect the provided power cord here.

CAUTION

- Never touch the cables at the rear of the scanner. Disconnection of these cables can cause a malfunction of the scanner.
- Take care to ensure that the vents never become blocked. Blocked vents can lead to heat build-up inside of the scanner and create the risk of fire.

■ Setting the SCSI ID and terminator

Set the SCSI ID and terminator using the DIP switches located between the SCSI connectors and power cord connector.
For details on the settings, refer to the *User Manual*.



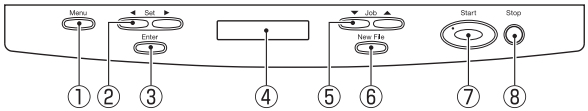
SCSI ID	SW1	SW2	SW3
0	OFF	OFF	OFF
1	ON	OFF	OFF
2	OFF	ON	OFF
3	ON	ON	OFF
4	OFF	OFF	ON
5	ON	OFF	ON
6	OFF	ON	ON
7	ON	ON	ON

Refer to the table when setting the SCSI ID. If other SCSI devices are connected to or built into the computer, make sure that none of the SCSI IDs overlap.

IMPORTANT

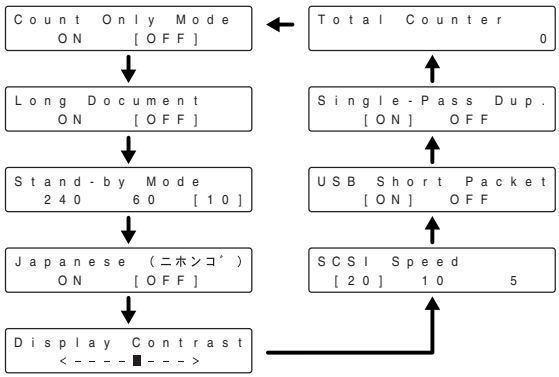
- The SCSI ID is factory set to 2.
- You can set the SCSI ID between 0 and 7. However, do not use ID 7 as this ID is usually assigned to the SCSI controller. In addition, when the SCSI hard disk drive is built in, do not use IDs 0 and 1 as these IDs are usually assigned to the hard disk.

Operation Panel



① Menu Key

Press this key to cycle the display through the various user modes, as shown below.



② Set Keys

Use these keys to change the setting of the currently displayed user mode.

③ Enter Key

Press this key to register the currently displayed user mode setting.

④ Display Panel

Displays the number of scanned pages, error codes, etc.

⑤ Job Keys

Use these keys to scroll through registered job numbers (01 through 99) on the display panel. Pressing the Start key while a job number is displayed starts the scanning of the document and forwards the scanned image to the destination registered for the job.

⑥ New File Key

This key is active for applications that support batch separation. This key lights when pressed or in accordance with the application's batch separation settings. Scanning the next document while this key is lit causes the scanned image to be stored in a different file or folder than the previously scanned document.

⑦ Start Key

The Start key lamp lights when the key is enabled by the Count Only Mode or the application's settings. Pressing the Start key while its lamp is lit causes scanning to start.

⑧ Stop Key

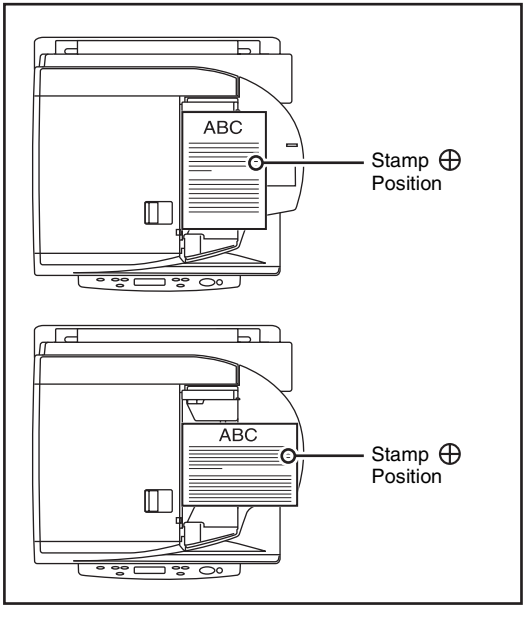
Pressing this key stops an ongoing scanning operation. This key is also used to cancel a mode setting and clear an error indicator from the counter display area.

4. Optional Products

The following options can be purchased and used on the DR-7090C, if they are necessary. Contact your sales representative.

Stamp Unit

The stamp unit affixes a stamp on document pages that are scanned using the feeder. The application can be used to turn stamping on or off.
The stamp is a circle that has a diameter of about 0.1" (3 mm), with a cross in the center. It is stamped on the scanned side of the document page, approximately 0.4" (10 mm) from the trailing edge of the document page.



Hint

- The stamp pattern is fixed and cannot be changed.
- When scanning both sides of a document, the sides that are stamped will differ depending on the Single Pass Duplex setting of the scanner's user mode settings. When the Single Pass Duplex setting is ON, only the front side of the document is stamped. When the Single Pass Duplex setting is OFF, both sides of the document are stamped.
- The cross in the center of the stamp rotates during stamping.

Chapter 2 Basic Operation

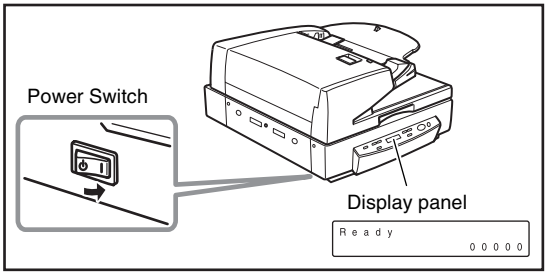
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3. Placing Documents onto the Scanner 19
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 Paper Jam Causes 37
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1. Turning the Power ON

This section describes how to turn ON the scanner.

About the Power Switch

The power switch is located on the scanner's side panel, and the following appears on the display panel when the power switch is turned ON. (See p. 54.)



IMPORTANT

- When connecting the scanner to the computer using a SCSI cable, be sure to turn ON the scanner first, and then turn ON the computer. If you turn ON the computer first, the scanner may not be properly recognized by the computer.
- Press the power switch again to turn the scanner OFF.
- After turning the scanner OFF, wait at least 10 seconds before turning it ON again.
- If you will not be using the scanner for an extended period, disconnect the power cord from the AC outlet for safety.

2. Documents

This section describes the various types of documents that can be scanned with the feeder.

⚠ CAUTION

Handle documents with care. Improper handling of paper can cause paper cuts or other personal injury.

Types of Documents

The following are the dimensions of the documents that can be fed by the feeder:

Width: 55" to 11.7" (139.7 mm to 298.1 mm)

Length: 5" to 17" (128 mm to 431.8 mm) (Normal Mode)
5" to 24.8" (128 mm to 630 mm) (Long Document Mode)

Document Thickness

Black-and-white Documents

Simplex: 0.002" to 0.006" (0.06 mm to 0.15 mm)

Duplex: 0.002" to 0.006" (0.07 mm to 0.15 mm)

Black-and-white/Color Documents Mixed: 0.002" to 0.006" (0.07 mm to 0.15 mm)

Color Documents

0.003" to 0.006" (0.08 mm to 0.15 mm)

Documents Longer than 17" (432 mm)

0.003" to 0.006" (0.08 mm to 0.14 mm)

Document Weight

Black-and-white Documents

Simplex: 11 to 32 lb bond (42 to 128 g/m^2)

Duplex: 13 to 32 lb bond (50 to 128 g/m^2)

Black-and-white/Color Documents Mixed: 13 to 32 lb bond (50 to 128 g/m^2)

Color Documents

17 to 32 lb bond (64 to 128 g/m^2)

Documents Longer than 17" (432 mm)

16 to 24 lb bond (60 to 90 g/m^2)

Follow these guidelines when you prepare a document for scanning:

- When scanning long documents, set Long Document mode to ON in the user mode settings, and then scan the documents one by one.
- Before scanning documents that contain pasted artwork, make sure that the ink or paste on the pages is thoroughly dry. If the documents are scanned with the ink or paste still wet, the scanner may malfunction.
- If you scan a document written in pencil, the letters may not scan properly or the pencil may rub off onto the rollers and stain subsequent documents. Before you scan this kind of document, make a copy and then scan the copy. After scanning a document written in pencil or some other soft writing material, be sure to clean the scanning rollers. (See “Cleaning the Feeder” on p. 46.)
- If you scan thin paper in the Duplex mode, the ink printed on the back side may be scanned. In this case, adjust the scanning density.
- If you scan documents with a rough surface, friction between the documents may cause a paper jam. In this case, select [Flatbed], and then scan the documents one page at a time.
- When you scan a batch of NCR documents, make sure that they are not stuck together. If a jam occurs, change the scanning side setting to ‘Flatbed’, and then scan the document one page at a time.

- To avoid paper jams, damage to documents, and a scanner malfunction, do not feed the following types of paper. For such documents, scan one page at a time from the flatbed (platen glass).


Wrinkled or creased paper


Carbon-backed paper


Curled paper


Coated paper


Torn paper


Extremely thin paper


Paper with clips or staples

Hint

- Note that mixing documents of different thicknesses and sizes may cause a malfunction during feeding.
- Documents containing text or pictures within 0.2" (5 mm) of its edges or documents with a color background may cause erroneous skew detection or automatic size detection.

3. Placing Documents onto the Scanner

This section describes how to load documents into the feeder and how to position a document page on the flatbed (platen glass) for scanning.

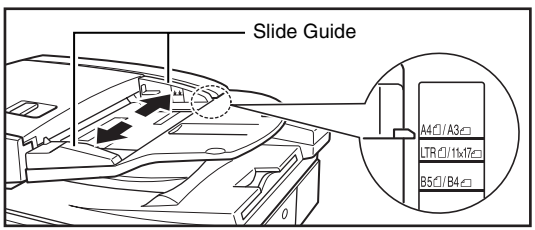
⚠ CAUTION

Handle documents with care. Improper handling of paper can cause paper cuts or other personal injury.

Loading a Document into the Feeder

Perform the following steps to load the pages of a document into the feeder for scanning.

1. Adjust each slide guide so its pointer is aligned with the corresponding paper size on the document size label.

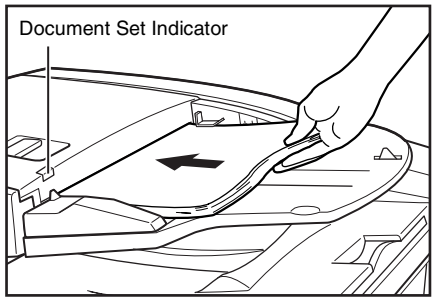


❗ IMPORTANT

Use both hands to adjust both the left and right slide guides. Adjusting only one slide guide can lead to a malfunction.

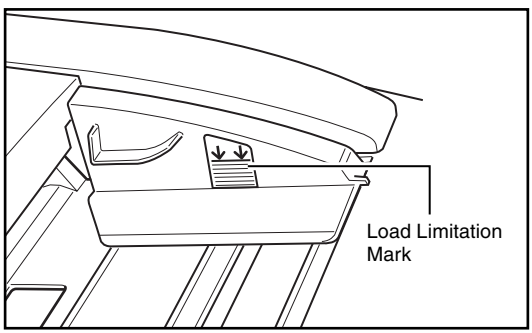
2. Align the edges of the document stack on a flat surface, and then load the stack into the feeder with the scanning side facing upwards.

Insert the stack into the feeder as far as it will go, until the document set indicator lights.

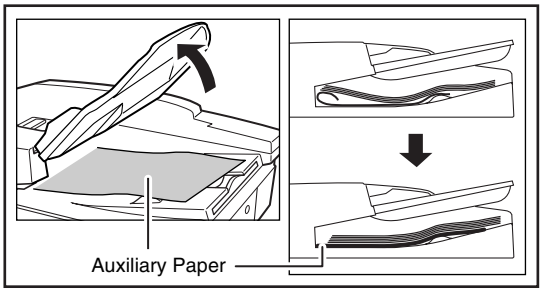


❗ IMPORTANT

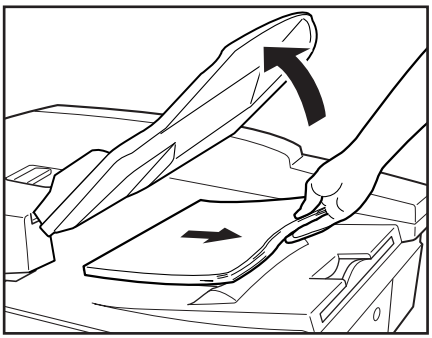
- Make sure the top of the document stack is not higher than the load limitation mark. Overloading the feeder can cause jamming.
- The feeder is designed to hold approximately 100 sheets of standard copy paper (20 lb bond or 80g/m^2).



- When scanning NCR paper that is 11" x 17"/A3 or other large sizes, as well as paper that is very thin, the document may occasionally get caught in the paper eject mechanism. In this case, place an auxiliary sheet of paper in the document eject tray before scanning the document.



3. After scanning is complete, lift the document feeder tray, and then remove the document from the document eject tray.



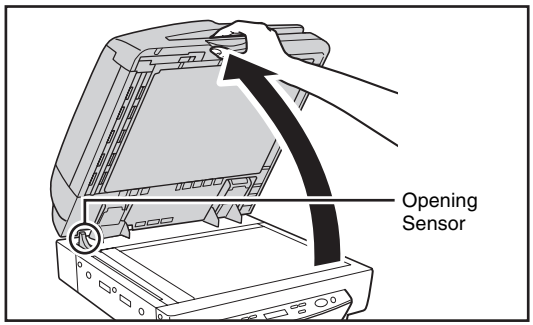
IMPORTANT

- Leaving a document in the document eject tray and scanning another document can cause jamming.
- Raise the document feeder tray only as much as you need to remove the ejected document pages. Trying to forcibly raise the document feeder tray can cause a malfunction.

Positioning a Document on the Flatbed (Platen Glass)

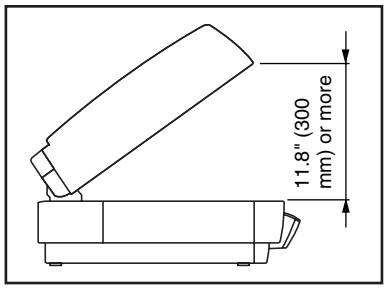
Use the following procedure to scan on the flatbed (platen glass) when scanning a book, thick document, very thin document, OHP (overhead transparency) or any other document that cannot be scanned using the feeder.

1. Open the feeder.

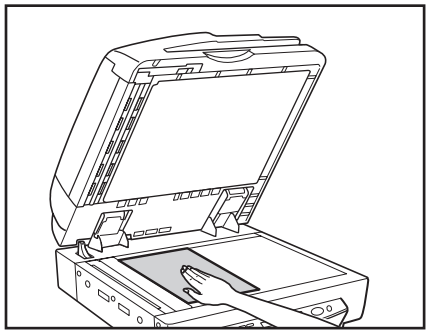


IMPORTANT

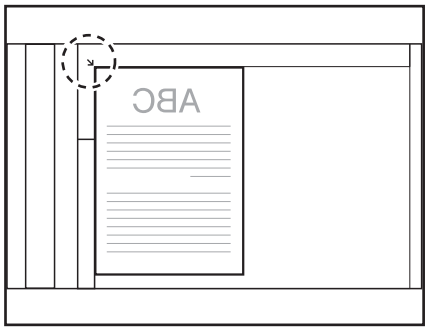
- Lower the feeder slowly, taking care to avoid pinching your fingers. Failure to do so might result in personal injury.
- When scanning on the flatbed (platen glass), open the feeder at least 11.8" (300 mm) until the opening sensor unit is disengaged.



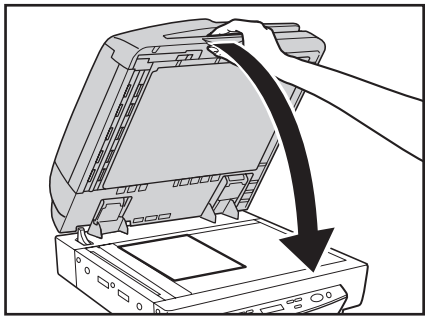
2. Place the document onto the flatbed (platen glass) with the scanning side facing downwards.



With the scanning side of the document facing downwards, align its corner with the arrow mark in the upper left corner of the flatbed (platen glass).



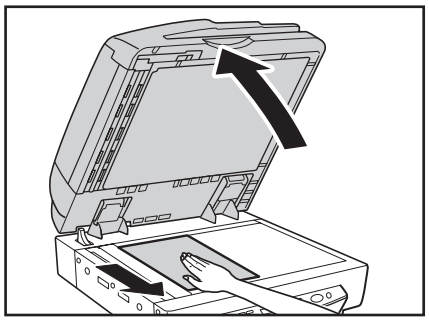
3. Slowly and carefully lower the feeder back down.



⚠ CAUTION

- Lower the feeder slowly, taking care to avoid pinching your fingers. Failure to do so might result in personal injury.
- When scanning a thick book or similar item on the flatbed (platen glass), avoid pressing down hard on the feeder. Doing so might damage the glass and create the risk of malfunction or personal injury.

4. Open the feeder and remove the document from the flatbed (platen glass).



❗ IMPORTANT

Open the feeder carefully and slowly, taking care to avoid letting the feeder fall over backwards.

4. Document Feeding

This section describes the various different document feeding modes that are available, and the basic steps to use each mode for scanning.

CAUTION

- Avoid wearing loose fitting clothing, dangling jewelry, long ties, or even long hair that could become entangled with moving parts, especially the rollers that feed the paper. If such objects become entangled, immediately disconnect the power plug from the power outlet to stop the scanner.
- Check the stack and remove all clips, staples, pins, or any other type of metal or plastic fastener. They may damage the document, cause a paper jam, or scanner malfunction.
- Do not open the feeder cover during scanning. This could damage the document, cause document jams, or damage the scanner.

Scan Procedure

The Feeding Option setting (see p. 33) in the scanner settings screen allows you to select from among the three feeding modes described below. The procedure you should use depends on the currently selected feeding mode.

Standard Feeding (See p. 22)

With this mode, you start and stop scanning from an application on your computer. After placing the document onto the scanner, instruct the scanner from your computer to start scanning.

Panel Feeding (See p. 23)

Panel feeding comes in handy when using the feeder for continuous scanning, for scanning page-by-page from a book, etc. After placing the document page onto the scanner, press Start to start scanning.
When scanning is complete, place the next document page onto the scanner, and then press Start again.

Automatic Feeding (See p. 24)

Use this mode for scanning a stack of document pages with the feeder. The scanner will start scanning automatically when it detects a document in the document feeder tray. Scanning stops when the document feeder tray is empty. Loading the next document into the document feeder tray restarts scanning.

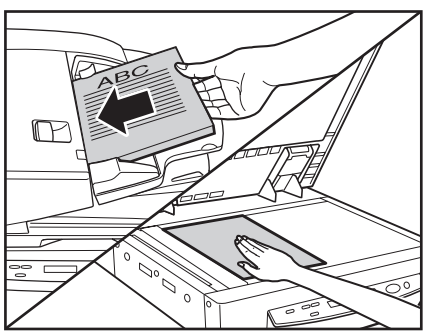
Hint

- To scan using the flatbed, set the scanning side to [Flatbed] or [Auto] in the scanner settings screen.
- If the scanning side is set to [Auto] in the scanner settings screen, documents placed in the feeder will be scanned. If there are no documents in the feeder, the flatbed will be scanned.

■ Standard Feeding

To use the standard feeding mode, instruct the scanner to start from the application.

1. Select [Standard Feeding] in [Feeding Option] on the scanner settings screen.
2. Place the document onto the scanner.



IMPORTANT

See “Placing Documents onto the Scanner” on p. 19 for information about placing documents onto the scanner.

3. From the application you are using, execute the required command to start scanning.
Scanning starts.

4. When scanning of the document is complete, the application goes into the Ready Mode.

Hint

If paper feeding stops during scanning due to a system error or paper jam, make sure that the last page of the document was recorded properly before continuing to scan.

5. If you want to scan another document, place it onto the scanner, and then execute the required command from the application to resume scanning. To finish scanning, execute the required command from the application.

IMPORTANT

If you are using the feeder for scanning, be sure to remove ejected document pages from the document eject tray before scanning another document. Leaving a document in the document eject tray and scanning another document can cause a paper jam.

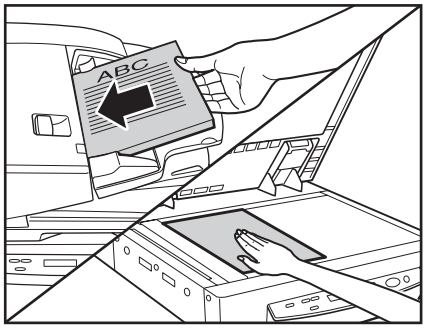
■ Panel Feeding

With panel feeding, you execute the scan command from your application, and then use the scanner’s Start and Stop keys to control the scanning operation.

1. Select [Panel-Feeding] in [Feeding Option] on the scanner settings screen.

2. From the application you are using, execute the required command to start scanning.
The Start key lamp to lights green.

3. Place the document onto the scanner.



IMPORTANT

See “Placing Documents onto the Scanner” on p. 19 for information about placing documents onto the scanner.

4. Press Start.

5. When scanning of the document is complete, the scanner goes into the Ready Mode.

Hint

If paper feeding stops during scanning due to a system error or paper jam, make sure that the last page of the document was recorded properly before continuing to scan.

6. If you want to scan another document, place it onto the scanner, and then press Start to resume scanning. To finish scanning, press Stop.

IMPORTANT

If you are using the feeder for scanning, be sure to remove ejected document pages from the document eject tray before scanning another document. Leaving a document in the document eject tray and scanning another document can cause a paper jam.

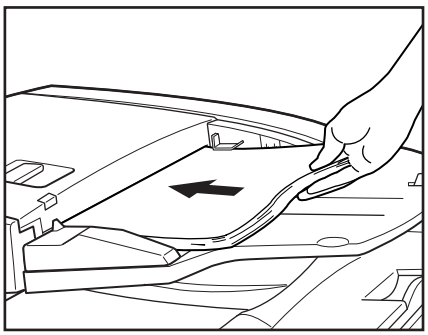
■ Automatic Feeding

Automatic feeding can be used when feeding a document from the feeder. After you execute the scan start command from the application, the scanner starts scanning automatically whenever it detects a document loaded into the feeder.

1. Select [Automatic Feeding] in [Feeding Option] on the scanner settings screen.

2. From your application, execute the command to start scanning.
The Start key lamp lights green.

3. Load the document into the document feeder tray.



The scanner detects the documents, and scanning starts.

IMPORTANT

See “Placing Documents onto the Scanner” on p. 19 for information about placing documents onto the scanner.

4. When scanning of the document is complete, the scanner goes into the Ready Mode.

5. Raise the document feeder tray to remove the ejected document pages.

IMPORTANT

Make sure to remove ejected document pages from the document eject tray before scanning another document. Leaving a document in the document eject tray and scanning another document can cause a paper jam.

6. Loading another document into the document feeder tray causes scanning to start automatically. After you finish scanning, press Stop.

Hint

If the scanning side is set to [Auto] and the feeding option is set to [Automatic Feeding], scanning is performed as follows.

- Documents are automatically detected and scanned when placed in the feeder.
- The Start key lamp lights, and the flatbed enters a standby state. If you place a document on the flatbed and press the Start key, the document on the flatbed will be scanned.

5. Scanning

Scanning operations can be controlled by a scanning application program such as the CapturePerfect 3.0 software included with the scanner, or directly from the control panel of the DR-7090C, using the Job Function.
This section describes the Job Function and provides an overview of CapturePerfect 3.0.

IMPORTANT

- When the conditions for scanning require a large amount of the computer's memory, scanning may not be possible if the memory is insufficient. If a memory error appears during scanning, exit the application and change the scanning conditions before attempting to scan again.
- Configurations that use the computer's memory include the following. If memory becomes insufficient, consider changing these configurations.
 Mode (24-bit Color), Dots per inch (600 dpi), Page Size (Auto-detection), Deskew

About the Job Function

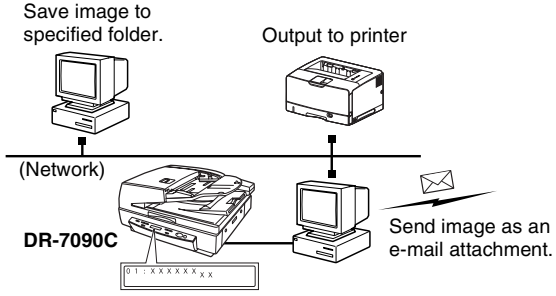
The Job Function enables you to use the Job Registration Tool to register different jobs which can then be selected for scanning by pressing the Job key on the control panel.
Job registration stores scanning condition settings, image file format selection, save destination, and image data processing settings for each job to be used with the Job Function.

Hint

The Job Registration Tool is a TWAIN-compliant application that is installed along with the ISIS/TWAIN driver. For details, refer to Chapter 9 "Job Registration Tool Settings" in the *User Manual*.

The Job function has the capabilities listed below, and jobs can be registered using the Job Registration Tool.

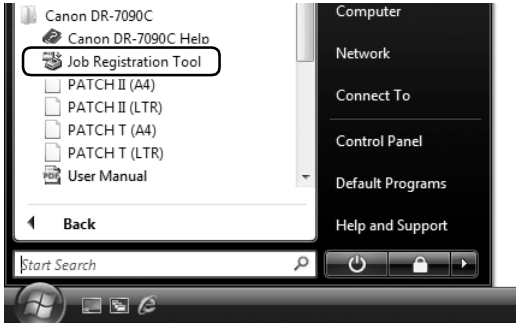
- Images can be saved to a shared folder or other specified folder.
- Images can be sent as e-mail attachments (e-mail application not required).
- Images can be output to a specified printer.



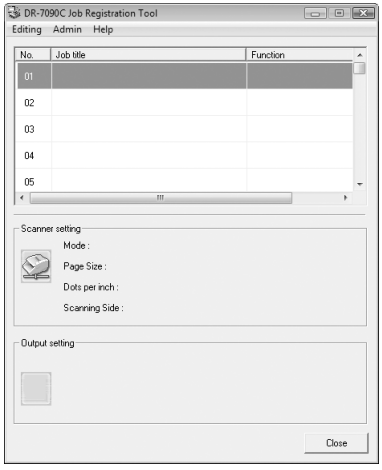
■ Executing Jobs

Use the following procedure to execute jobs that have been registered by the Job Registration Tool.

1. Set the Events function. (See "Setting the Events Function" on p. 27.)
2. From the Windows task bar, click [Start] ➔ click [All Programs] ➔ [Canon DR-7090C] ➔ [Job Registration Tool].



Job Registration Tool starts.

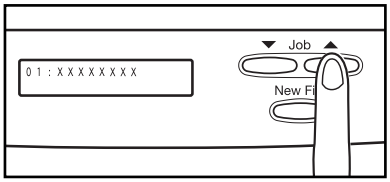


3. Use Job Registration Tool to register a job.

Hint

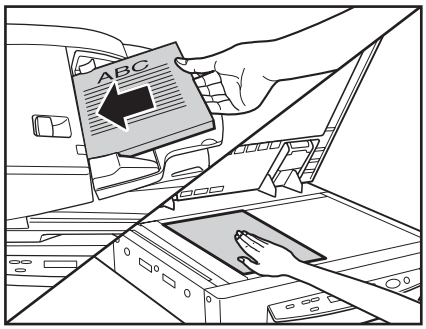
For details on how to register jobs with Job Registration Tool, see Chapter 9 “Job Registration Tool Settings” in the *User Manual*.

4. Press the Job [▲] key to enter the Job Mode.
The job number screen appears on the display panel.



5. Press the Job [▲] and [▼] keys to select a job number (01 to 99).

6. Place the document onto the scanner.



IMPORTANT

For details on how to place documents, see “Placing Documents onto the Scanner” on p. 19.

7. Press the Start key.
The image file is forwarded in accordance with the selected job.

8. When scanning of the document is complete, press the Stop key to exit the Job Mode.

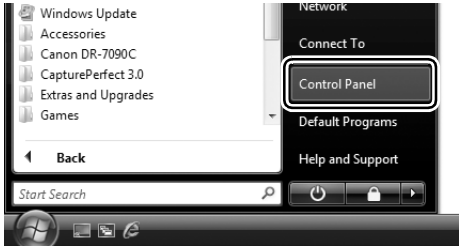
Hint

If the Job Mode is not operating correctly, see “Troubleshooting” on p. 57.

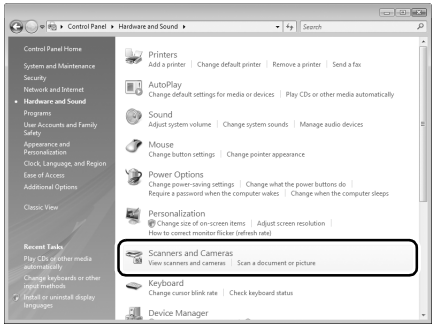
■ Setting the Events Function

The Job function will not function unless [DR7090C Job Tool] is specified for the scanner's Events function in Windows. Before using the Job function, perform the following procedure to configure the scanner's event settings.

1. Click the [Start] button, then select [Settings] - [Control Panel].



2. Double-click [Scanners and Cameras].

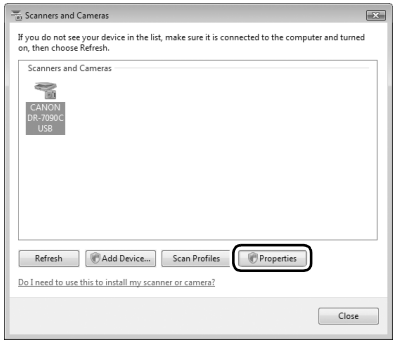


The Scanners and Cameras dialog box appears.

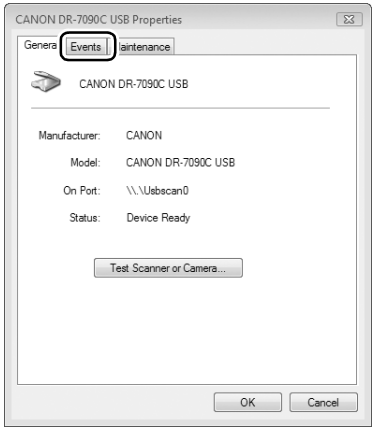
Hint

The dialog box that appears may vary depending on the Windows version you are using.

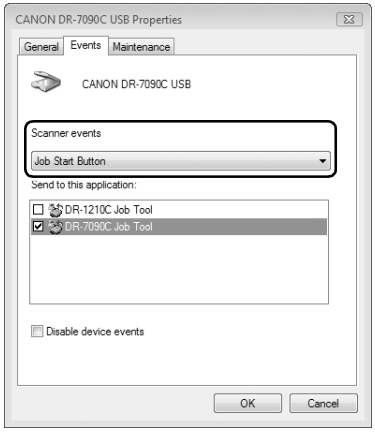
3. Select [Canon DR-7090C] and click [Properties].



4. Click the [Events] tab.



5. Select [Job Start Button] under [Scanner events].



6. Clear all the check boxes under [Send to this application] except for the [DR-7090C Job Tool] check box.
7. Click [Apply].

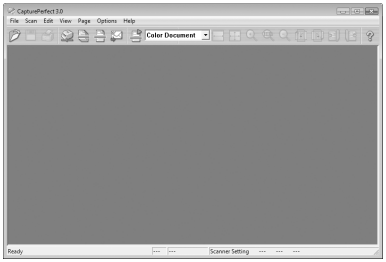
IMPORTANT

You cannot use the Job function if the [Disable device events] check box is selected.

8. Click [OK].
9. Restart Windows.

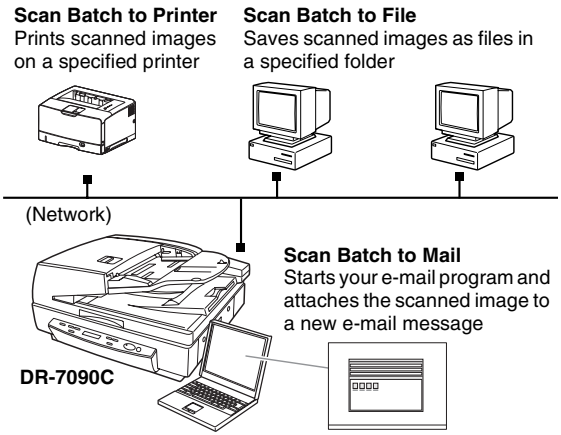
CapturePerfect 3.0

CapturePerfect 3.0 is an ISIS-compatible application developed for Canon document scanners.
CapturePerfect 3.0 includes the following modes. Select the desired scan mode from the Scan menu to perform scanning. For more information on CapturePerfect 3.0, refer to the *CapturePerfect 3.0 Operation Guide*.



■ Scanning with CapturePerfect

The following three scanning methods are available from the CapturePerfect Scan menu.



Scan Batch to File

Documents are scanned with the preset scanning conditions, and the scanned image data is saved to a specified folder.

Scan Batch to Printer

Documents are scanned with the preset scanning conditions, and the scanned image data is printed on a specified printer.

Scan Batch to Mail

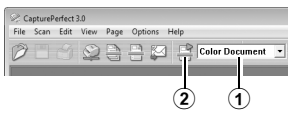
Scanning is performed with the specified scanning conditions, and a MAPI-compliant e-mail client is started to generate a new e-mail message with the scanned images as attachments.

Scan Page

Only one page of the document is scanned.

Scan Job

The scanning conditions and scan mode (Scan Batch to File, Scan Batch to Printer, or Scan Batch to Mail) are registered in advance as a job. The scan job can then be performed by selecting the registered job from the drop-down list (①) or by clicking (Scan Job) on the toolbar (②).



Hint

The following two scan jobs are already registered and up to 99 additional jobs can be registered.

- Color Document
 Scan the document using 24-bit color, simplex, at 300 dpi resolution, and save the file in the folder [My Pictures] under the folder [My Documents].
- Binary Document
 Scan the document in black-and-white, simplex, at 200 dpi resolution, and save the file in the folder [My Pictures] under the folder [My Documents].

Scan To Presentation

This mode is useful when a compact scanner is used in an environment such as a conference hall, where it is connected to a large display or projector. By setting CapturePerfect for full-screen display before scanning, scanned images are displayed at full size on the screen.

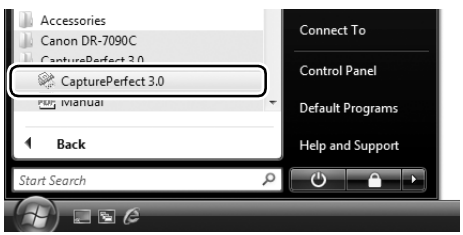
Hint

This is not usually practical for large scanners such as the DR-7090C.

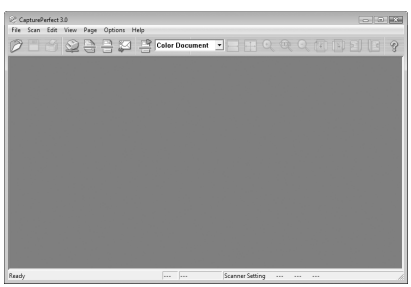
■ Using CapturePerfect 3.0

This section describes how to start CapturePerfect 3.0 and scan documents. The procedure for using the Scan Batch to File function is described here as an example.
For details, refer to the *CapturePerfect 3.0 Operation Guide*.

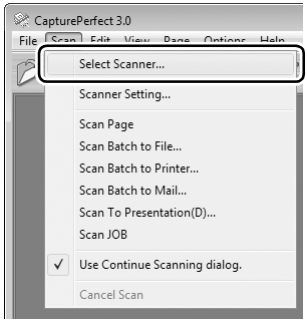
1. From the Windows task bar, click [Start] ➔ click [All Programs] ➔ [CapturePerfect 3.0] ➔ [CapturePerfect 3.0].



CapturePerfect 3.0 starts.



2. From the [Scan] menu, select [Select Scanner].

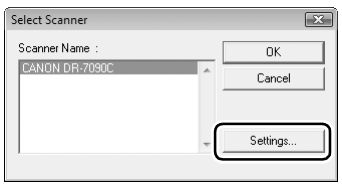


The [Select Scanner] dialog box opens.

Hint

Before the DR-7090C scanner can be used, it must be selected as the scanner for use with your application program.
As the scanner selection procedure depends on the application program being used, refer to your application's user's manual as needed to select the scanner.

3. Select [Canon DR-7090C] and click [Settings].

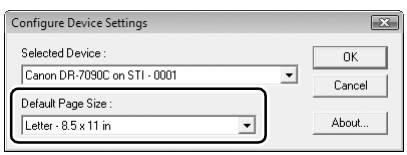


The [Configure Device Settings] dialog box opens.

IMPORTANT

If [Canon DR-7090C] is not displayed in [Scanner Name], you must re-install the ISIS/TWAIN driver.

4. Set the [Default Page Size].

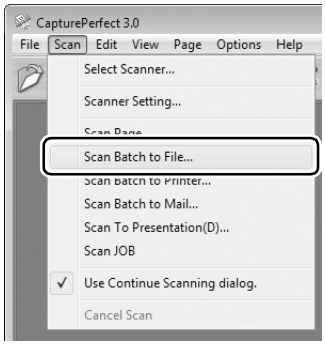


IMPORTANT

If you select [Default] in the ISIS driver properties dialog box, that setting is applied here.

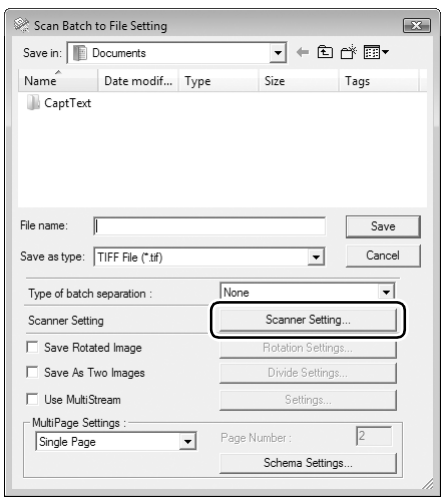
5. Click [OK] to finish scanner selection.

6. From the [Scan] menu, select [Scan Batch to File].

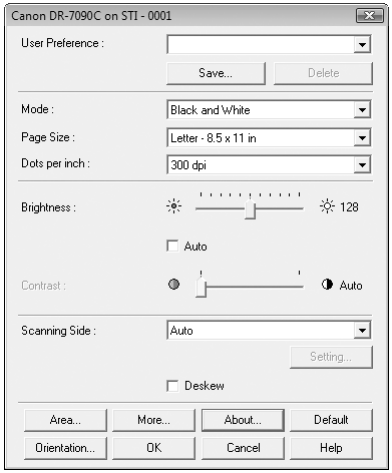


The [Scan Batch to File Setting] dialog box opens.

7. Click [Scanner Setting].



The Properties dialog box for the scanner driver opens.



8. Set the scan settings. (See “Scanner Settings Dialog Boxes” on p. 33.)

9. Specify the file name and the file type for saving the image data.

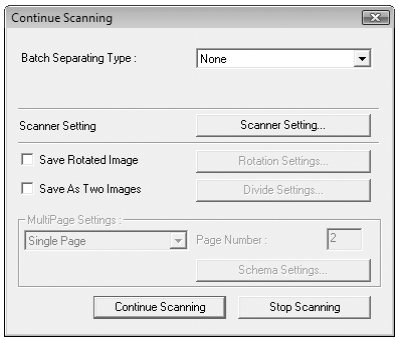
For details on the available settings in the [Scan Batch to File Setting] dialog box, refer to the *CapturePerfect 3.0 Operation Guide*.

10. Place your document and click [Save] to start scanning.

IMPORTANT

You must load your documents as described below, depending on the specified [Scanning Side] and [Feeding Option] settings.

- If the [Standard Feeding] Feed Option is enabled, load your documents before scanning. When all of the documents have been scanned, the Continue Scanning dialog box appears.

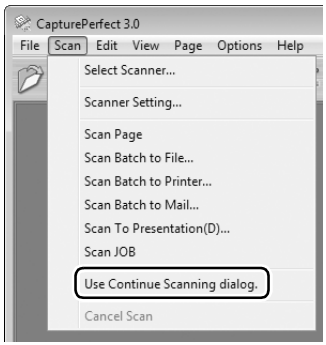


- If a Feed Option other than [Standard Feeding] or [Manual Feeding] is selected, once you have started scanning, each document placed in the Document Feed Tray is scanned, and when no document is loaded, the scanner enters the standby state.
- If the [Automatic Feeding] Feed Option is enabled, scanning is performed automatically whenever a sensor in the Document Feed Tray detects a loaded document, and pressing the Stop key causes the Continue Scanning dialog box to appear.
- If the [Panel-Feeding] Feed Option is enabled, the Start key lamp is lit. You must load a document and press the Start key to scan. Pressing the Stop button causes the Continue Scanning dialog box to appear.
- If the scanning side is set to [Auto] and the feeding option is set to [Automatic Feeding], scanning is performed as follows.
 - Documents are automatically detected and scanned when placed in the feeder.
 - The Start key lamp lights, and the flatbed enters a standby state. If you place a document on the flatbed and press the Start key, the document on the flatbed will be scanned.

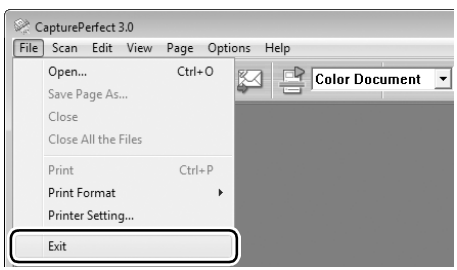
11. When the [Continue Scanning] dialog box appears, verify that a document is loaded, and click either [Continue Scanning] or [Stop Scanning].

Hint

If Use Continue Scanning dialog in the [Scan] menu is not checked, scanning finishes without displaying the Continue Scanning dialog box.



12. When scanning is complete, select [Exit] from the [File] menu to quit CapturePerfect 3.0.

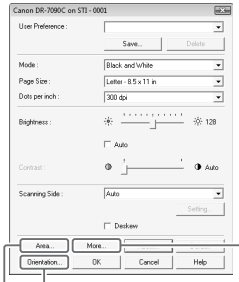


Scanner Settings Dialog Boxes

The settings dialog boxes for the scanner appear according to the following structure, and the availability of some functions depend on the application you are using. For details, refer to the *User Manual*.

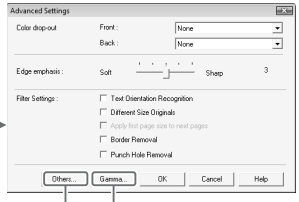
Basic Setup Dialog Box

Allows you to configure basic scan settings.



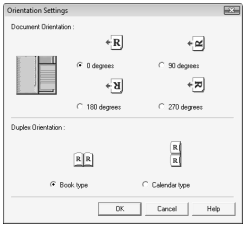
Advanced Settings Dialog Box

Allows you to configure processing options for scanned images.



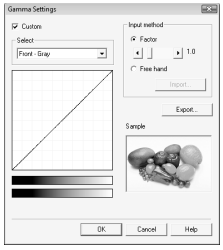
Orientation Settings Dialog Box

Allows you to configure scan settings based on document orientation.



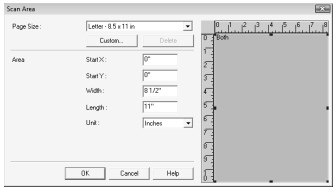
Gamma Settings Dialog Box

Allows you to adjust color settings for scanned images.



Scan Area Dialog Box

Allows you to define specific areas for scanning.



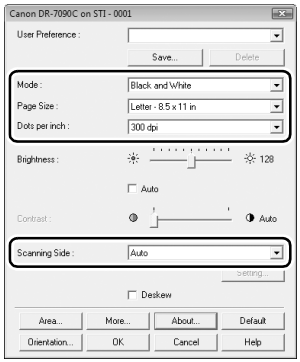
Other Settings Dialog Box

Allows you to configure settings including those for the feed method, batch separation, and prescanning.



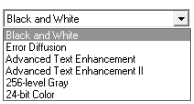
■ Basic Scanning Condition Settings

This section provides an overview of the basic setting items that are the minimum requirements when configuring the scanner settings.
When you scan a document, make sure to confirm the [Mode], [Page Size], [Dots per inch], and [Scanning Side] basic conditions in the Basic Setup dialog box.



Mode

Select the scanning mode.

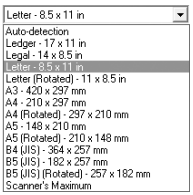


Hint

[Advanced Text Enhancement] removes or processes the background color and background surrounding text to enhance the text for easy reading.

Page Size

Select the paper size in accordance with the document to be scanned.

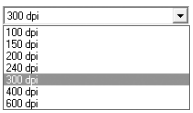


Hint

If [Auto-detection] is selected, the edges of the document are detected and images that match the size of the document are saved.

Dots per inch

Select the scanning resolution.

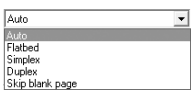


Hint

Higher resolutions provide clearer images, but produce larger files.

Scanning Side

Select which page side(s) to scan.



Hint

- To scan using the flatbed, set the scanning side to [Flatbed] or [Auto].
- If the scanning side is set to [Auto], documents placed in the feeder tray will be scanned. If there are no documents in the feeder tray, the flatbed will be scanned.
- If the scanning side is set to [Skip Blank Page], the images of blank pages are deleted when the images are saved.

6. Clearing Paper Jams

A paper jam is indicated when scanning stops unexpectedly and the message shown below appears on the display panel. Use the procedure below to clear a paper jam.

```
J a m
                P x x x
```

Hint

- The document set indicator on the feeder cover flashes when a paper jam occurs.
- The error code, "xxx", will vary depending on the detected location of the paper jam.

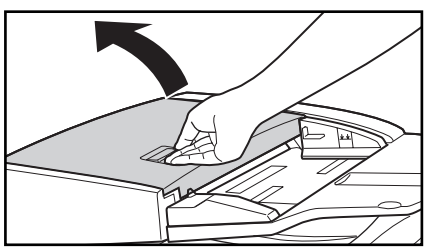
Clearing a Paper Jam

WARNING

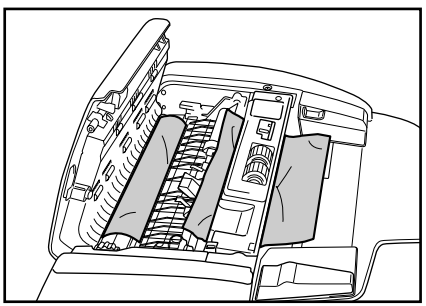
- Be careful when you clear a paper jam. You may be injured unexpectedly. For example, the paper edges may cut your fingers, or the document may be damaged.
- Remove all jammed sheets of paper. Paper scraps left inside the scanner may be drawn into the scanner again, causing another paper jam or malfunction.
- When opening or closing the feeder, take care not to get your fingers caught.

1. Remove all document pages from the document feeder tray and the document eject tray.

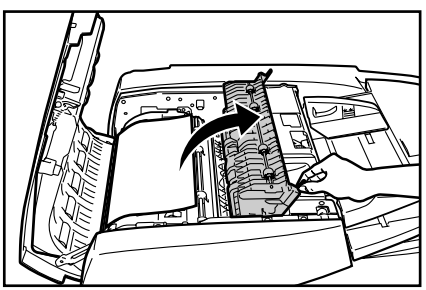
2. Open the feeder cover.
Operate the opening lever, and then slowly raise the cover until it stops.



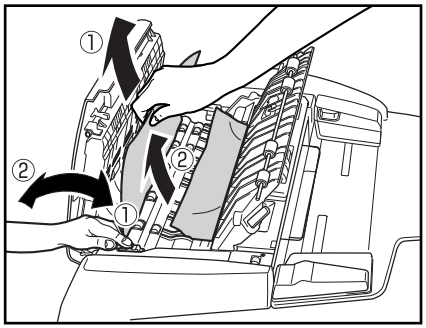
3. Confirm the location of the paper jam.



4. If the document is jammed under the feeder guide, grasp the tab inside the scanner to open the feeder guide.



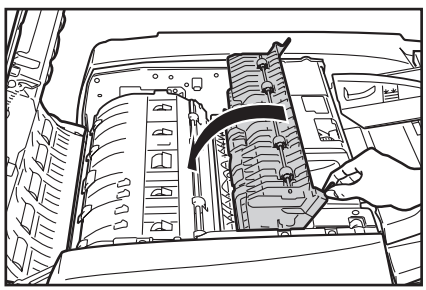
5. Rotate the dial on your side of the scanner to remove any paper jammed inside the feeder.



Hint

- Rotating the dial to the right ① reverse feeds any paper jammed inside the feeder.
 Gently pull the paper from the feeder as you rotate the dial.
- Rotating the dial to the left ② forward feeds jammed paper into the document eject tray. After feeding the paper, raise the document feeder tray and remove the paper.

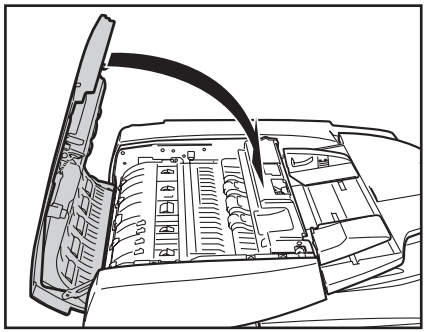
6. Close the feeder guide.



CAUTION

Take care to avoid pinching your fingers when closing the feeder guide.

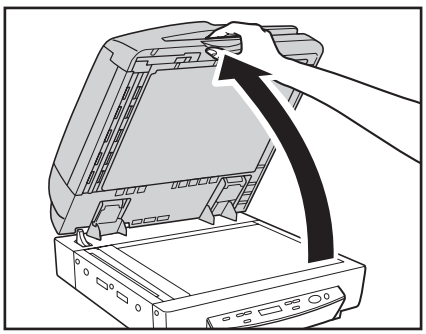
7. Close the feeder cover.



CAUTION

Take care to avoid pinching your fingers when closing the feeder cover.

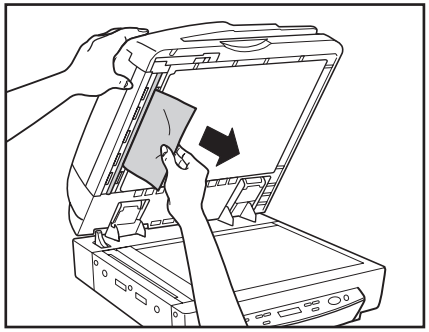
8. Open the feeder.



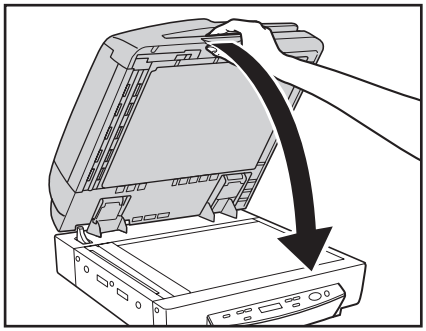
CAUTION

Open the feeder carefully and slowly, taking care to avoid letting the feeder fall over backwards.

9. Remove any paper jammed inside the feeder.



10. Slowly and carefully close the feeder.



⚠ CAUTION

Lower the feeder slowly, taking care to avoid pinching your fingers. Failure to do so might result in personal injury.

Paper Jam Causes

Any of the following factors can cause paper to jam. If you experience paper jams, check the following points and take the required action:

- **What to check:** Is the document size or thickness outside the range supported by the feeder, or is the document paper of substandard quality?
 What to do: See "Documents" on p. 17 for information about required document properties.
- **What to check:** Is a jam being caused by document paper that is not sliding properly?
 What to do: Scan such paper from the flatbed (platen glass), one page at a time. (See p. 20.)
- **What to check:** Are the rollers inside the feeder dirty or worn?
 What to do: If the rollers are dirty, clean them. (See p. 46.) If the rollers are worn, contact your service representative to have them replaced.

7. About the User Modes

You can configure the scanner settings with the user modes described below.

User Mode Functions

User mode functions are as follows:

■ Count Only Mode

```
Count Only Mode
    ON     [OFF]
```

ON: Counts the number of pages in a document using stand-alone scanner operations.
OFF: Normal Mode (default)

■ Long Document Mode

```
Long Document
    ON     [OFF]
```

ON: Enables detection of documents up to 24.8" (630 mm) long for auto document size detection. (See "Documents" on p. 17.)
OFF: Enables detection of documents up to 17.0" (432 mm) long for auto document size detection (default).

IMPORTANT

- Processing speed may slow down when scanning while the Long Document mode is set.
- When scanning two-sided documents with the Long Document mode set to ON, the documents will be scanned one side at a time, regardless of the single-pass duplex setting.
- When using the Long Document mode, if you place a long document askew in the document tray, it will rub against both sides of the feeding path and may damage the document. Make sure to align the document straight when placing it in the document tray.
- When using the Long Document mode, jam detection may not work propery and document may be damaged. Be wary of paper jams when using Long Document mode.
- When scanning a document that is 17" (432 mm) or more in length, load the document one page at a time and scan.

■ Stand-by Mode

```
Stand-by Mode
  240     60    [10]
```

240: Scanner enters Stand-by Mode after 4 hours of non-use.
60: Scanner enters Stand-by Mode after an hour of non-use.
10: Scanner enters Stand-by Mode after 10 minutes of non-use (default).

■ Display Language Mode

```
Japanese (ニホンゴ゛)
    ON     [OFF]
```

ON: Japanese
OFF: English (default)

■ Display Contrast Setting

```
Display Contrast
    <----■---->
```

Use the ◀ and ▶ keys to move the pointer (■) to the left for lighter contrast or to the right for darker contrast.

■ Setting SCSI Transfer Speed

```
SCSI Speed
 [20]   10      5
```

Set the maximum value for synchronous transfer speed for the SCSI interface.
20: 20 Mbyte/sec (Ultra SCSI) (default)

10: 10 Mbyte/sec (First SCSI)
5: 5 Mbyte/sec (non-synchronous)
If the scanner does not operate correctly when the output speed is set to '20' Mbyte/sec, reduce the transfer speed to '10' Mbyte/sec or '5' Mbyte/sec.

■ Setting USB Short Packet

```
USB Short Packet
    [ON]   OFF
```

Change the USB short packet settings. (default: ON)
If the scanner does not operate normally with your computer's standard USB interface, change the short packet setting to 'OFF'.

IMPORTANT

If you change the setting for the SCSI transfer speed or the USB short packet settings, turn OFF the scanner, and then turn it ON.

■ Setting Single-Pass Duplex

```
Single-Pass Dup.
    [ON]   OFF
```

Select the duplex (two side) scanning method used for documents placed in the feeder tray.
ON: Scans both sides of the document page simultaneously (default).
OFF: The scanner scans the front side of the document page and then automatically flips the page to scan the reverse side.

■ Total Counter

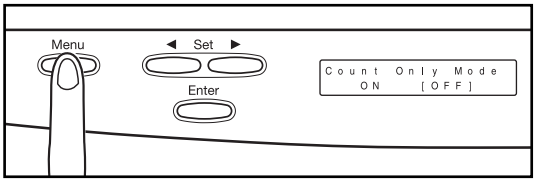
```
Total Counter
                0
```

Displays the cumulative total number of document pages fed by the scanner.

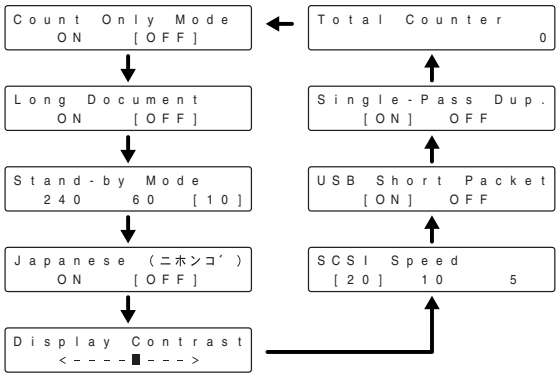
How to Set the User Modes

Use the following procedure to configure user mode settings.

1. Press Menu to display the user mode screens.



Use the Menu key to cycle through the user modes in the sequence shown below.



2. Use the ◄ and ► keys to change the currently displayed setting.

3. Press Enter to register the displayed setting.

4. To exit the user mode screens, press Stop.

Chapter 3 Maintenance

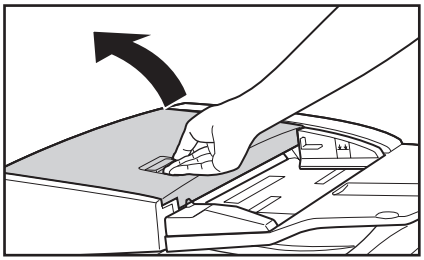
1. Changing the Stamp Cartridge 42
2. Daily Cleaning..... 44
About the Cleaning Cloth and Cleaning Paper 44
Cleaning the Main Unit.....44
Cleaning the Flatbed (Platen Glass) and Pressure Board.....45
Cleaning the Feeder.....46
Cleaning the Power Plug.....52

1. Changing the Stamp Cartridge

When using the optional stamp unit (see p. 14) to stamp scanned documents, you should use the following procedure to replace the stamp cartridge whenever the stamp mark becomes smudged or faint. Contact your sales reprentative or service representative to purchase a new stamp cartridge.

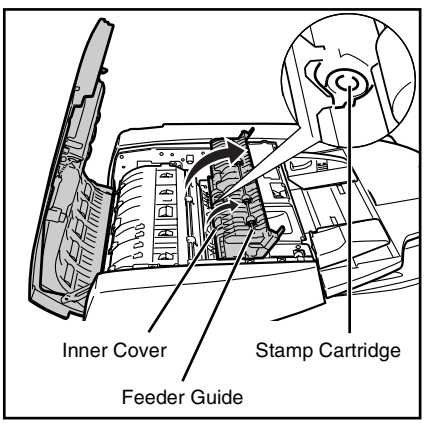
1. Open the feeder cover.

Operate the opening lever, and then slowly raise the cover until it stops.

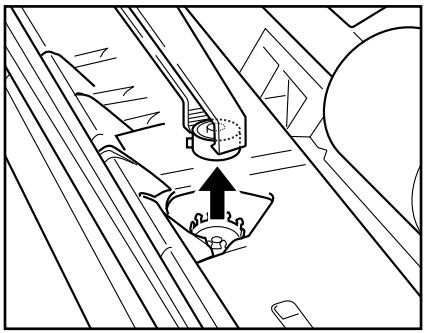


2. Open the feeder guide, and then open the inner cover.

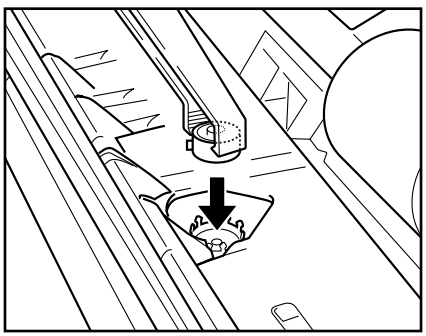
The feeder guide has a green tab, while the inner cover located under the feeder guide has a light blue tab.



3. Use a pair of tweezers or some similar tool to remove the old stamp cartridge.



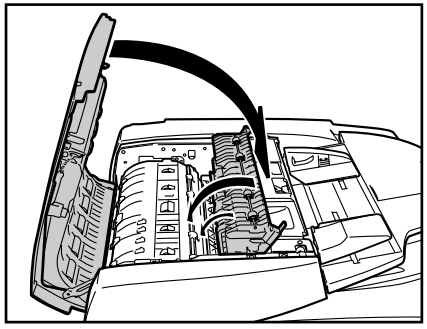
4. Insert a new stamp cartridge.



IMPORTANT

- When installing the stamp cartridge, make sure that the stamp does not protrude outside the hole.
- Improperly installing the stamp cartridge can cause paper jams.

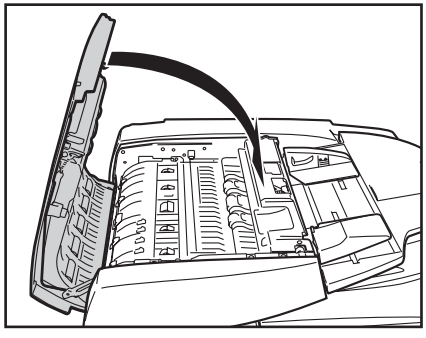
5. Close the feeder guide and inner cover.



⚠ CAUTION

Take care to avoid pinching your fingers when closing the feeder guide and inner cover.

6. Close the feeder cover.



⚠ CAUTION

Take care to avoid pinching your fingers when closing the feeder cover.

2. Daily Cleaning

To maintain high-quality scanning, you should periodically clean the following:
- Main unit
- Flatbed (Platen glass)
- Pressure Board
- Feeder

⚠ CAUTION

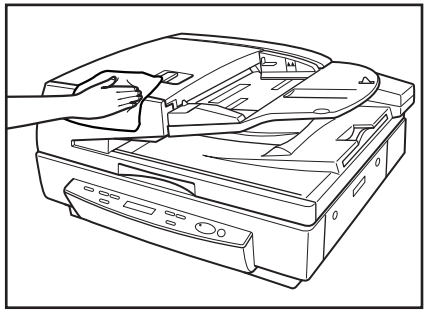
- Before you clean the scanner, turn OFF the scanner and computer and disconnect the power cord from the power outlet. Otherwise, an electrical shock may result.
- Never clean the scanner with any kind of organic solvent, such as alcohol, benzene, or paint thinner. It might cause a fire and electrical shock, or cause the exterior of the scanner to disfigure or discolor.
- Never spray detergent or water directly onto the flatbed (platen glass). Sprayed liquid can get inside the scanner and soil the light source and lens.
- Overuse of water and allowing the scanner to become too wet during cleaning can damage scanned documents and cause malfunction of the scanner.

About the Cleaning Cloth and Cleaning Paper

Use cleaning cloth and cleaning paper supplied with the scanner as follows.
- Cleaning coth:
 Use the cleaning cloth to clean the scanning glass and rollers.
- Cleaning paper:
 Attach the cleaning paper to the scanning area cleaning tool located behind the pressure board. (See p. 49 and p. 51.)

Cleaning the Main Unit

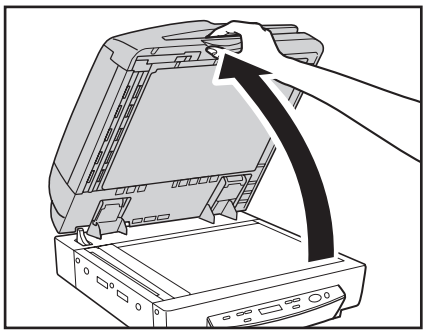
Wipe the scanner with a firmly wrung cloth moistened slightly with water or mild detergent. Then wipe off with a clean, dry cloth.



Cleaning the Flatbed (Platen Glass) and Pressure Board

A dirty flatbed (platen glass) or pressure board can cause soiling of scanned images, or document size detection errors. Clean the flatbed (platen glass) and pressure board periodically.

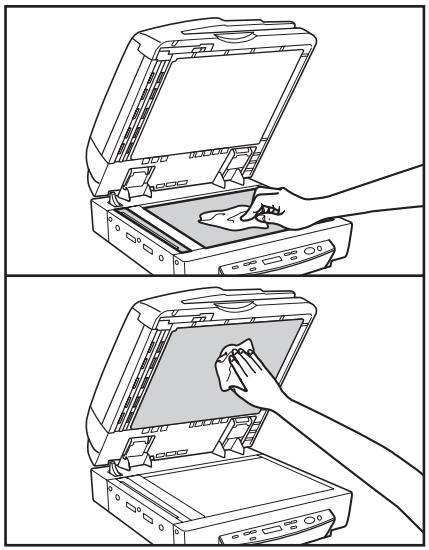
1. Open the feeder.



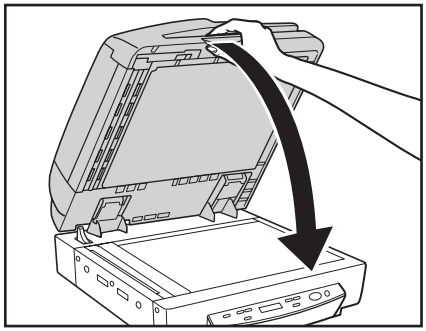
CAUTION

Open the feeder carefully and slowly, taking care to avoid letting the feeder fall over backwards.

2. Wipe the flatbed (platen glass), scanning glass (narrow strip of glass) and pressure board with a cloth moistened with plain water and thoroughly wrung out. Next, wipe the flatbed (platen glass), scanning glass and pressure board with a soft, dry cloth.



3. Slowly and carefully close the feeder.



CAUTION

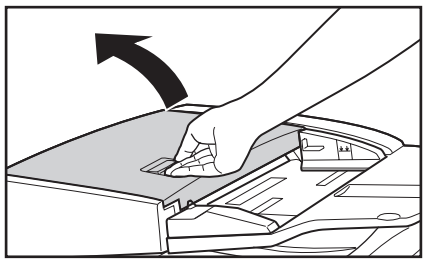
Lower the feeder slowly, taking care to avoid pinching your fingers. Failure to do so might result in personal injury.

Cleaning the Feeder

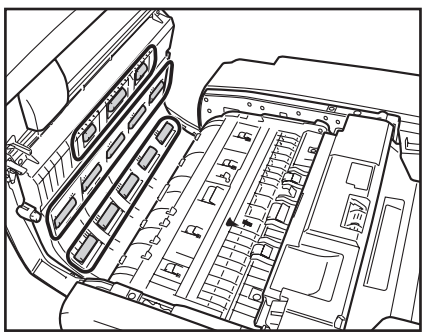
Without periodic cleaning, a problem may be caused on the scanned image or the document may become soiled. Clean the feeder periodically.

1. Open the feeder cover.

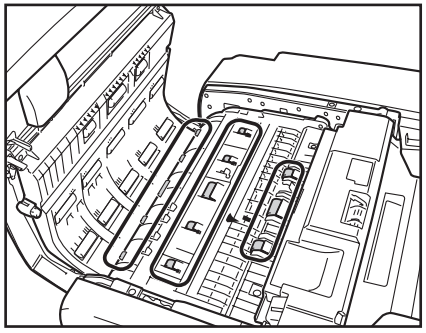
Operate the opening lever, and then slowly raise the cover until it stops.



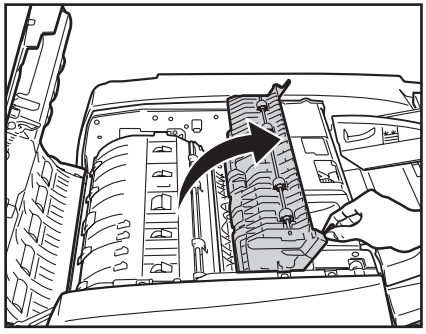
2. Wipe the 13 rollers inside the feeder cover with a cloth moistened with plain water and thoroughly wrung out. Next, wipe the rollers dry with a soft, dry cloth.



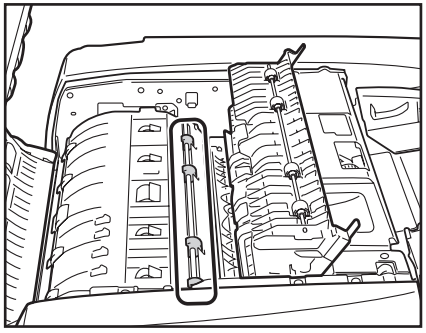
3. Wipe the 13 rollers on the feeder guide with a cloth moistened with plain water and thoroughly wrung out. Next, wipe the rollers dry with a soft, dry cloth.



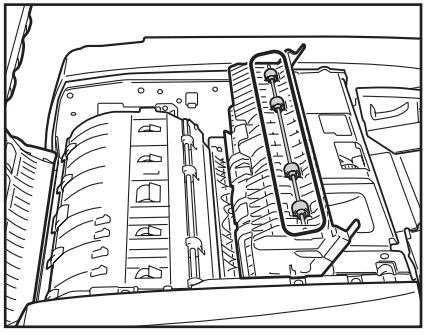
4. Grasp the tab in the front to open the feeder guide.



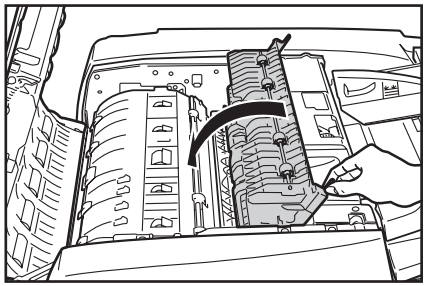
5. Wipe the four rollers with a cloth moistened with plain water and thoroughly wrung out. Next, wipe the rollers dry with a soft, dry cloth.



6. Wipe the four rollers inside the feeder guide with a cloth moistened with plain water and thoroughly wrung out. Next, wipe the rollers dry with a soft, dry cloth.



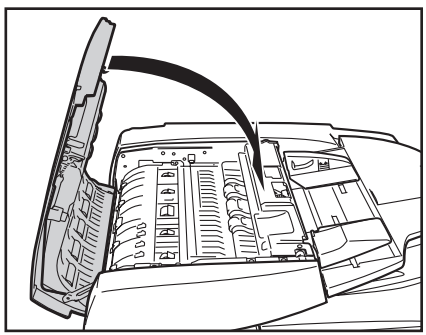
7. Close the feeder guide.



CAUTION

Take care to avoid pinching your fingers when closing the feeder guide.

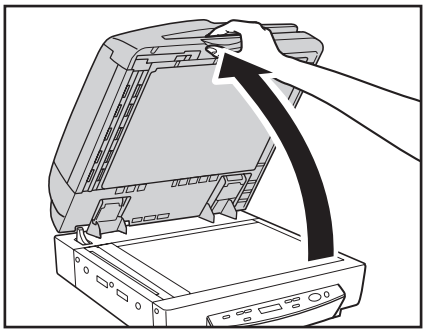
8. Close the feeder cover.



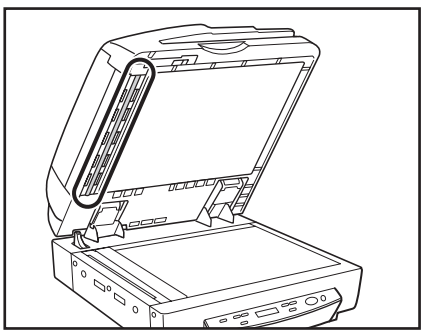
CAUTION

Take care to avoid pinching your fingers when closing the feeder cover.

9. Open the feeder.

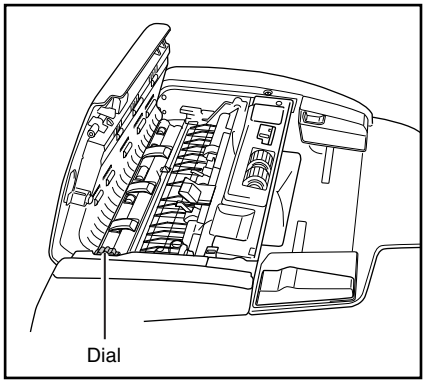


10. Wipe the feeder roller (white) and platen roller (black) with a cloth moistened with plain water and thoroughly wrung out. Next, wipe the metal dry with a soft, dry cloth.

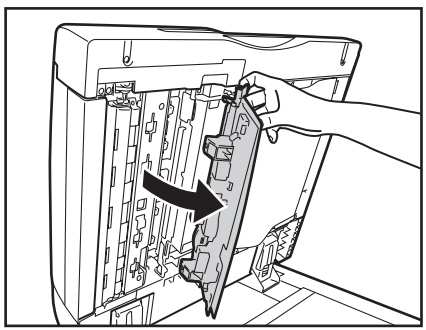


IMPORTANT

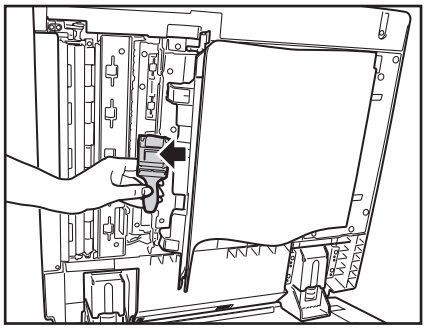
When you open the feeder cover and turn the dial located in the front, the platen roller rotates.
When cleaning the platen roller, rotate the roller slowly while wiping it.



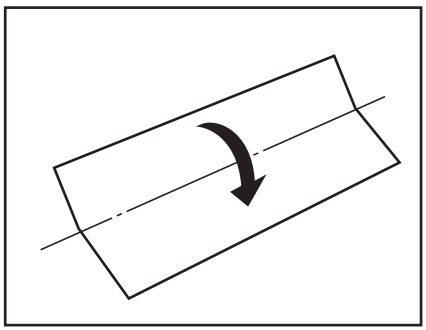
11. Pull the lever on the upper part of the feeder to open the scanning area on the feeder.



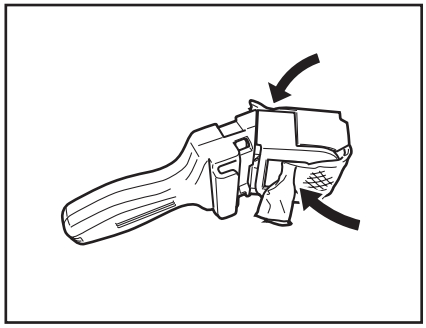
12. Remove the scanning area cleaning tool from inside the cover.



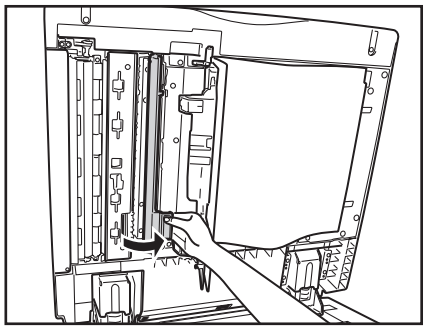
13. Remove one sheet of cleaning paper from the plastic bag, and fold it in two as shown.



14. Attach the cleaning paper to the scanning area cleaning tool.



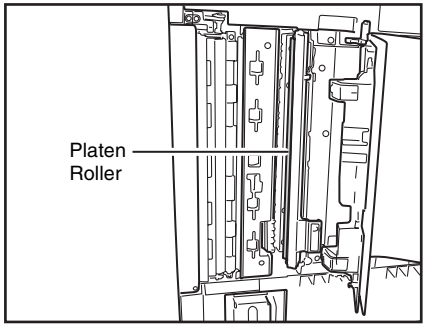
15. Open the inner cover.



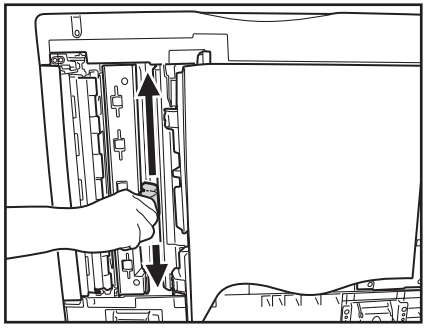
16. Wipe the platen roller located behind the inner cover with a cloth moistened with plain water and thoroughly wrung out. Next, wipe the roller with a soft, dry cloth.

IMPORTANT

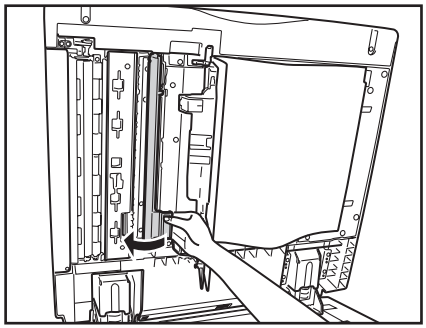
When cleaning the platen roller, rotate the roller slowly while wiping it.



17. Clean the feeder's scanning area along the rail.



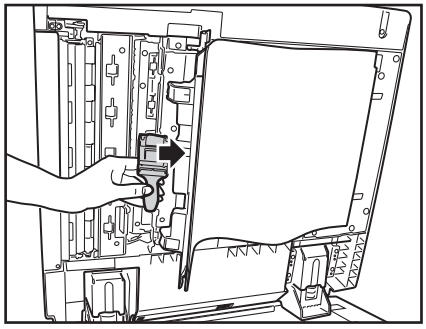
18. Close the inner cover.



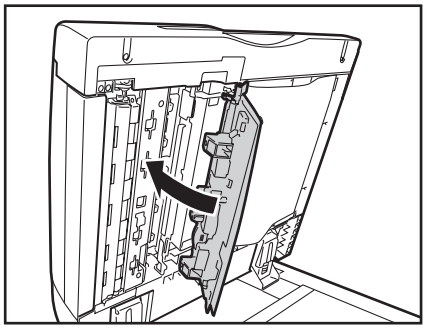
CAUTION

Take care to avoid pinching your fingers when closing the cover.

19. Remove the cleaning paper from the scanning area cleaning tool, and place the cleaning tool inside the cover.



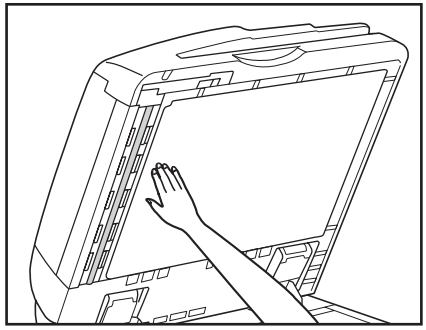
20. Close the cover for the feeder's scanning area.



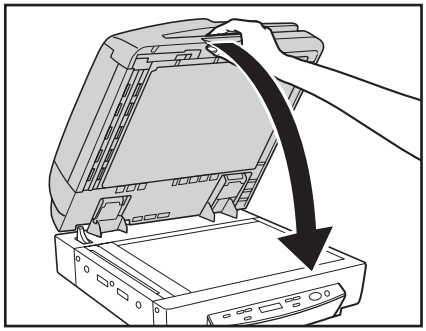
CAUTION

Take care to avoid pinching your fingers when closing the cover.

21. Press the center part of the cover until it clicks into place. Make sure that the cover is completely closed.



22. Slowly and carefully lower the feeder back down.



CAUTION

Lower the feeder slowly, taking care to avoid pinching your fingers. Failure to do so might result in personal injury.

Cleaning the Power Plug

If you leave the power plug connected to the power outlet for a long period of time, dust may accumulate at the power outlet, and cause a fire or electrical shock. Clean the power plug periodically.

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1. Messages

There are two types of display panel messages: “status indicator messages” and “error messages” that appear when the scanner encounters a problem.

Status Display

The following messages appear on the display panel to indicate the scanner’s operating state:

■ Count Only Mode



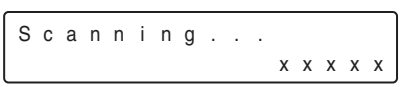
Status: Operating in Count-Only mode.

■ Ready



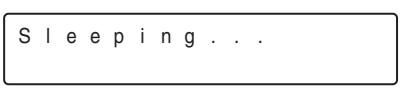
Status: The scanner is ready to use. If you do not perform any operations for 10 minutes, the scanner will enter Sleep mode.

■ Scanning...



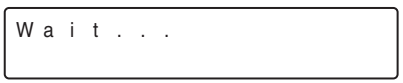
Status: Scanning is in progress.

■ Sleeping...



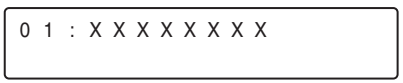
Status: The scanner is entering the Sleep mode. Press any key to recover.

■ Wait...



Status: The scanner is busy processing. Wait until the display changes.

■ 01:XXXXXXXX



Status: The scanner is in Job Mode. Press the Start key to scan, or press the Stop key to exit Job Mode. (See “About the Job Function” on p. 25.)

Error Messages

When one of the following messages appears on the display panel, an error has occurred in the scanner. Follow the indicated procedure to resolve the error.

■ Cover Open

```
Cover Open
                    Cxxx
```

Error Code: C001
Cause: The feeder is open.
Solution: Close the feeder.
Error Code: C002
Cause: The feeder cover is open.
Solution: Close the feeder cover.

■ Jam

```
Jam
                    Pxxx
```

Error Code: Pxxx
Cause: Paper has jammed.
Solution: Remove the jammed paper. (See p. 35.)

■ Misfeed

```
Misfeed
                    Axxx
```

Cause: Feed error
Solution: Check the document and try again. If this error continues to appear, scan the document from the flatbed (platen glass).

■ Send failed

```
Send failed.
```

Cause: An error occurred while transferring image data for a Job function.
Solution: Check the Job Registration Tool settings, and scan again. For details, see Chapter 9 “Job Registration Tool Settings” in the *User Manual*.

■ Detect Mix Doc.

```
Detect Mix Doc.
                    Jxxx
```

Cause: Mixed size documents were detected while scanning at 600 dpi resolution.
Solution: Check the size of the documents, and scan again. If this message appears when you are scanning documents of different sizes, set the mixed document mode to ON in the scanner settings to prevent this message from appearing.

■ Call for Service

```
Call for Service
                 Exxxxxxx
```

Error Code: E2020001
Cause: The transportation screws are still installed on the scanner.
Solution: Turn the scanner OFF, and remove the transportation screws. (See p. 2.)
Error Code: E2250101
Cause: The amount of light emitted from the reverse-side scanning sensor is insufficient.
Solution: If you restart the scanner, the “Single-Pass OFF” message appears. (See “Single-Pass OFF” on p. 56.)
Error Code: E4000100
Cause: One or more of the rear cables are disconnected.

Solution: Turn the power OFF, and check the rear of the scanner, and reconnect any cables that are disconnected. (See “Checking the Rear Cables” on p. 4.)

Error Code: Exxxxxxx (any error code not listed above)

Cause: Internal scanner error.

Solution: Turn the power OFF, and restart the scanner. If this does not solve the problem, make a note of the error code and contact your Canon service representative.

■ Single-Pass OFF

```
Single-Pass OFF
```

Cause: This appears when the scanner is restarted after the “Call for Service E2250101” (insufficient light from the reverse-side scanning sensor) error message appears.

Solution: The amount of light emitted is insufficient for scanning the reverse side of the document, and single-pass duplex scanning is disabled. Press any key on the operation panel to clear the message and enable normal scanning. Contact your local dealer or Canon service representative, and replace the reverse-side scanning sensor.

2. Troubleshooting

This section describes the problems that may occur during use of the scanner and how to solve them.

Trouble Categories

The following trouble categories are addressed:

- The Scanner Does Not Turn ON (See p. 57)
- The “Wait” Message Does Not Disappear (See p. 57)
- The Scanner Is Not Recognized (Connecting via USB) (See p. 58)
- The Scanner Is Not Recognized (Connecting via SCSI) (See p. 58)
- Scanning Is Not Performed (See p. 59)
- Slow Scanning Speed (See p. 59)
- Documents Do Not Feed Properly (See p. 60)
- Saved Image Files Do Not Open (See p. 60)
- Scanning Results Are Not as Expected (See p. 60)
- The Display Panel Does Not Display Properly (See p. 62)
- Job Functions Do Not Operate Properly (See p. 62)

It you cannot resolve a problem, contact your local authorized Canon dealer or your service representative.

Problem and Solution

■ The Scanner Does Not Turn ON

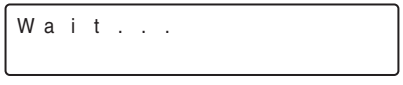
If the scanner does not turn ON, first confirm the following:

✔ Is the power cord connected correctly?

✔ Is the power cord inserted into the power outlet?

■ The “Wait” Message Does Not Disappear

Make sure that the cables at the rear of the scanner are properly connected, and then restart the scanner.
If the message does not disappear after restarting the scanner, contact your local Canon dealer or service representative.



■ The Scanner Is Not Recognized (Connecting via USB)

If the scanner's USB connection is not recognized, first confirm the following:

- ✔ Are the scanner and PC connected correctly using the proper cable?
- ✔ Is the scanner's power switch turned ON?

If this does not solve the problem, consider the following possible causes:

Cause	The scanner does not support your USB interface.
Solution	This product is not guaranteed to operate with all types of USB interfaces. Contact your local authorized Canon dealer or service representative for more information.
Cause	The scanner does not support the USB cable.
Solution	Use the USB cable provided with the scanner.
Cause	The USB hub is not compatible with the scanner.
Solution	Remove the USB hub.
Cause	The SCSI terminator is not set to ON.
Solution	When using a USB connection, proper scanning may not be possible if the SCSI terminator is not set to ON. Make sure to set the SCSI terminator to ON.

■ The Scanner Is Not Recognized (Connecting via SCSI)

If the scanner's SCSI connection is not recognized, first confirm the following:

- ✔ Are the scanner and PC connected correctly using the proper cable?
- ✔ Is the scanner's power switch turned ON?
- ✔ Is the SCSI card in the PC operating properly?
- ✔ Was the PC turned ON before the scanner?

IMPORTANT

When using the SCSI connection, if the scanner is turned ON after the PC, it may not be properly recognized by the PC.

If this does not solve the problem, consider the following possible causes:

Cause	The SCSI card is not compatible with the scanner.
Solution	Use a recommended SCSI card.
Cause	The scanner's SCSI ID is identical to the SCSI ID of another device.
Solution	Check the SCSI IDs of all SCSI devices connected to the system and set a unique SCSI ID for the scanner.
Cause	The terminator is not set correctly.
Solution	When another SCSI device is connected between the scanner and the PC, that device's terminator must be disabled (set to OFF).
Cause	There is a problem with another SCSI device that is connected in the daisy chain.
Solution	Do not use the daisy chain connection configuration.

■ Scanning Is Not Performed

If scanning does not start when it should, first confirm the following:

- ✔ Are the scanner and PC correctly connected with the proper cable?
- ✔ Is the scanner's power switch turned ON?

If this does not solve the problem, consider the following possible causes:

Cause	The ISIS/TWAIN driver and Job Registration Tool are not installed correctly
Solution	Uninstall and then reinstall the ISIS/TWAIN driver and Job Registration Tool.

Cause	Another application is using the driver for this scanner.
Solution	Exit the application that is using the driver.

Cause	Memory is insufficient due to scan conditions that require large amounts of memory.
Solution	Exit the application currently in use, change the scanning configurations after restarting the application, and try scanning again.

IMPORTANT

It the scanner does not operate because of a system error, turn the scanner OFF and wait at least 10 seconds before turning it back ON. If errors continue to occur, reboot the scanner and computer.

■ Slow Scanning Speed

If the scanning speed is slow, first confirm the following: Scanning may be slow if the USB interface does not support Hi-Speed USB 2.0.

- ✔ Does the PC's USB interface support only Full-Speed USB 1.1?
- ✔ Is the USB cable you are using the one that was supplied with the scanner (Hi-Speed USB 2.0 compliant)?
- ✔ Is a USB 1.1-compliant device connected to the USB hub at the same time?

If this does not solve the problem, consider the following possible causes:

Cause	Other applications are running in the background on your PC.
Solution	Quit all other applications that are running.

Cause	Resident applications, such as anti-virus software, are draining memory resources.
Solution	Quit all resident applications.

Cause	Temporary files cannot be created in the TEMP folder, as there is not enough free space on the hard disk.
Solution	Delete unnecessary files on the hard disk to increase free space.

■ The Two Sides of a Document are Not Scanned Simultaneously During Duplex Scanning

If the two sides of a document are scanned one side at a time during duplex scanning, confirm the following:

- ✔ Is Single-Pass Duplex set to ON in the user mode settings?
- ✔ Is Long Document mode set to OFF?

IMPORTANT

Single-pass duplex scanning is disabled when the amount of light emitted from the reverse-side scanning sensor is insufficient. (See p. 55.)

■ Documents Do Not Feed Properly

If a document does not feed properly, first confirm the following:

- ✔ Are pages sticking together because of static electricity or another cause?
- ✔ Are you attempting to scan a document with size, paper thickness or quality that is not supported by the scanner? (See “Documents” on p. 17.)
- ✔ Are the rollers dirty?
- ✔ Are the rollers worn out?

IMPORTANT

- Double feeding occurs when document pages stick together, and incompatible paper thickness or quality can cause paper jams. Check your documents carefully before loading.
- Replacement rollers can be purchased as consumables. If performance is not improved after cleaning the rollers, contact your local Canon dealer or service representative.

If this does not solve the problem, consider the following possible problems and causes:

Problem	Cannot scan from the feeder.
Cause	The scanning side setting for the ISIS/TWAIN driver is set to [Flatbed].
Solution	Set the scanning side to a setting other than [Flatbed].

■ Saved Image Files Do Not Open

If image files saved by CapturePerfect 3.0 cannot be opened by another application, first confirm the following:

- ✔ Does the application you are using support CapturePerfect 3.0 image file types (*.bmp, *.tif, *.jpg and *.pdf)?

If this does not solve the problem, consider the following possible causes:

Cause	The application does not support multi-page TIFF files.
Solution	Open the files using an application that supports multi-page TIFF files, or save the images as single-page TIFF files using CapturePerfect 3.0.

Cause	The compression format used by CapturePerfect 3.0 is not supported.
Solution	Open the image file with CapturePerfect 3.0, set the compression format to [None], and save it again.

■ Scanning Results Are Not as Expected

If the scanned images do not appear as expected, one or more ISIS/TWAIN driver settings may be incorrect, or your application may not support certain scanner functions.

Problem	The scanned image is too dark (or faint).
Cause	The [Brightness] setting is not set to an appropriate value.
Solution	If the image is too dark, set a higher brightness setting, or if the image is too faint, set a lower brightness setting.

Problem	Text or images from the back side of your document appear in the scanned image.
Cause	Brightness may be set too low.
Solution	Increase the Brightness setting.
Cause	The paper is too thin.
Solution	Photocopy the document, and scan the copy.

Problem	Double-sided scanning is not possible.
Cause	Scanning Side is set to [Simplex].
Solution	Set Scanning Side to [Duplex]. If the Scanning Side is set to [Skip Blank Page], images of blank pages are not saved.

Problem	A black margin appears around the scanned document.
Cause	A document smaller than the preset paper size has been scanned. Or, the loaded document has shifted out of position.
Solution	Set the page size setting to [Auto Detection].

Problem	The scanned image is skewed.
Cause	The document has been fed at an angle. (skew)
Solution	Slide the document guides to match the width of your document.

Problem	Lines, smudges, or dirt appear on the scanned image.
Cause	The scanning glass or rollers inside the scanner are dirty.
Solution	Clean the scanning glass and roller inside the feeder. (See “Daily Cleaning” on p. 44.) If lines still appear on the image even after you clean the scanning glass and rollers, the scanning glass inside the scanner may be scratched. Contact your local authorized Canon dealer or service representative.

Problem	The scanned image is abnormal for certain documents.
Cause	A detection function such as border removal is enabled when scanning a document that includes text or photos extending to the edge of the page (the scanner cannot accurately process the edges of documents).
Solution	When a page has text or photos extending to its edges, turn the detection functions off or scan that page individually.

Problem	The scanned image is abnormal in some applications.
Cause	A function not supported by the application was used.
Solution	Some applications do not support functions such as auto-detection of page size, so scanning with such applications will produce abnormal scanned images. If abnormal image appearance seems to be application-dependent, try scanning with auto-detection disabled.

■ The Display Panel Does Not Display Properly

Consider the following possible problem and causes:

Problem	The panel display is in Japanese.
Cause	The panel display is set to Japanese in the user mode settings.
Solution	Set the panel display to English in the user mode settings.

Problem	The panel display is dark.
Cause	The brightness setting for the display panel needs adjustment.
Solution	Adjust the Display Contrast in the user mode settings.

■ Job Functions Do Not Operate Properly

Job data is stored on your computer. If Job functions do not operate properly, first confirm the following:

✔ Is your computer turned on?

✔ Is your computer properly connected to the scanner?

If this does not solve the problem, consider the following possible problems and causes:

Problem	The job title does not appear after pressing the Job keys.
Cause	The job was not registered using Job Registration Tool.
Solution	Register the job using Job Registration Tool. For details, refer to Chapter 9 “Job Registration Tool Settings” in the *User Manual*.

Problem	The Job function does not operate after selecting the job and pressing the Start key.
Cause	The Windows Events function is not configured properly.
Solution	Configure the Windows Events function settings so that [DR-7090C Job Tool] starts up.

Problem	Scanning is not performed and the “Send failed” message appears after selecting the job and pressing the Start key.
Cause	1) The ISIS/TWAIN driver is being used by another application. 2) The feeder is specified for document feeding, but there are no documents placed on the feeder.
Solution	1) Exit the application that is currently using the ISIS/TWAIN driver. 2) Place the document in the feeder, and scan again.

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Specifications for the Scanner

Type
Desktop ADF/flatbed scanner

Document Size
Width: 5.5" to 11.7" (139.7 mm to 298.1 mm)
Length: 5.0" to 17.0" (128 mm to 431.8 mm) (Normal Mode)
5.0" to 24.8" (128 mm to 630 mm) (Long Document Mode)

Document Thickness
Black-and-white Documents
- Simplex: 0.002" to 0.006" (0.06 mm to 0.15 mm)
- Duplex: 0.002" to 0.006" (0.07 mm to 0.15 mm)
- Black-and-white/Color Documents Mixed 0.002" to 0.006" (0.07 mm to 0.15 mm)

Color Documents
0.003" to 0.006" (0.08 mm to 0.15 mm)

Documents Longer than 17" (432 mm)
0.003" to 0.006" (0.08 mm to 0.14 mm)

Document Weight
Black-and-white Documents
- Simplex: 11 to 32 lb bond (42 to 128 g/m^2)
- Duplex: 13 to 32 lb bond (50 to 128 g/m^2)
- Black-and-white/Color Documents Mixed 13 to 32 lb bond (50 to 128 g/m^2)

Color Documents
17 to 32 lb bond (64 to 128 g/m^2)

Documents Longer than 17" (432 mm)
16 to 24 lb bond (60 to 90 g/m^2)

Document Feeding
Feeder/Flatbed

Scanning Method
3-line CCD, CIS

Light Source
Xenon lamp

Scanning Sides
Simplex/Duplex

Scanning Modes
Black and White, Error Diffusion, Advanced Text Enhancement, Advanced Text Enhancement II, 256-Level Grayscale, and 24-Bit Color

Scanning Resolution (primary scan lines x secondary scan lines)
600 x 600 dpi/400 x 400 dpi/300 x 300 dpi/240 x 240 dpi/200 x 200 dpi/150 x 150 dpi/100 x 100 dpi

Scanning Speed (A4 landscape)		Simplex	Duplex
Black-and-White	200 dpi	70 ppm	88 ipm
	300 dpi	70 ppm	88 ipm
	400 dpi	50 ppm	48 ipm
	600 dpi	50 ppm	48 ipm
Gray	200 dpi	70 ppm	88 ipm
	300 dpi	70 ppm	88 ipm
	400 dpi	50 ppm	48 ipm
	600 dpi	50 ppm	48 ipm
Color	200 dpi	70 ppm	88 ipm
	300 dpi	70 ppm	88 ipm
	400 dpi	50 ppm	48 ipm
	600 dpi	24 ppm	22 ipm

Automatic Feed
Max. 100 sheets (20 lb bond or 80g/m^2) or stack 0.5" (13 mm) or less

Interface
SCSI-III/Hi-Speed USB 2.0

Other Functions
Automatic paper size detection, Dropout color, Count Only Mode, Job function

Dimensions
24.3" (W) x 23.7" (D) x 12.5" (H)
(618 mm (W) x 602 mm (D) x 317 mm (H))

Weight

Approximately 90.4 lb (41 kg)

Power Requirement

AC 120 V (60 Hz), 1.8 A (max)
AC 220-240 V (50/60 Hz), 1.2 A (max)

Power Consumption

120 V model	Operating:	218 W maximum
	Standby:	Under 3.5 W
220-240 V model	Operating:	210 W maximum
	Standby:	Under 4.3 W

Noise

Less than 72 dB

Operating Environment

Temperature: 59°F to 86°F (15°C to 30°C)
Humidity: 25% to 80% RH

- You can use the functions noted above if the software supports them.
- They may not work depending on your computer's capabilities and the software you are using.

Specifications are subject to change without notice.

Options

Stamp Unit

Stamps a mark on the surface of a document to indicate it has been scanned. (See "Stamp Unit" on p. 14.)

Consumables

Stamp Cartridge

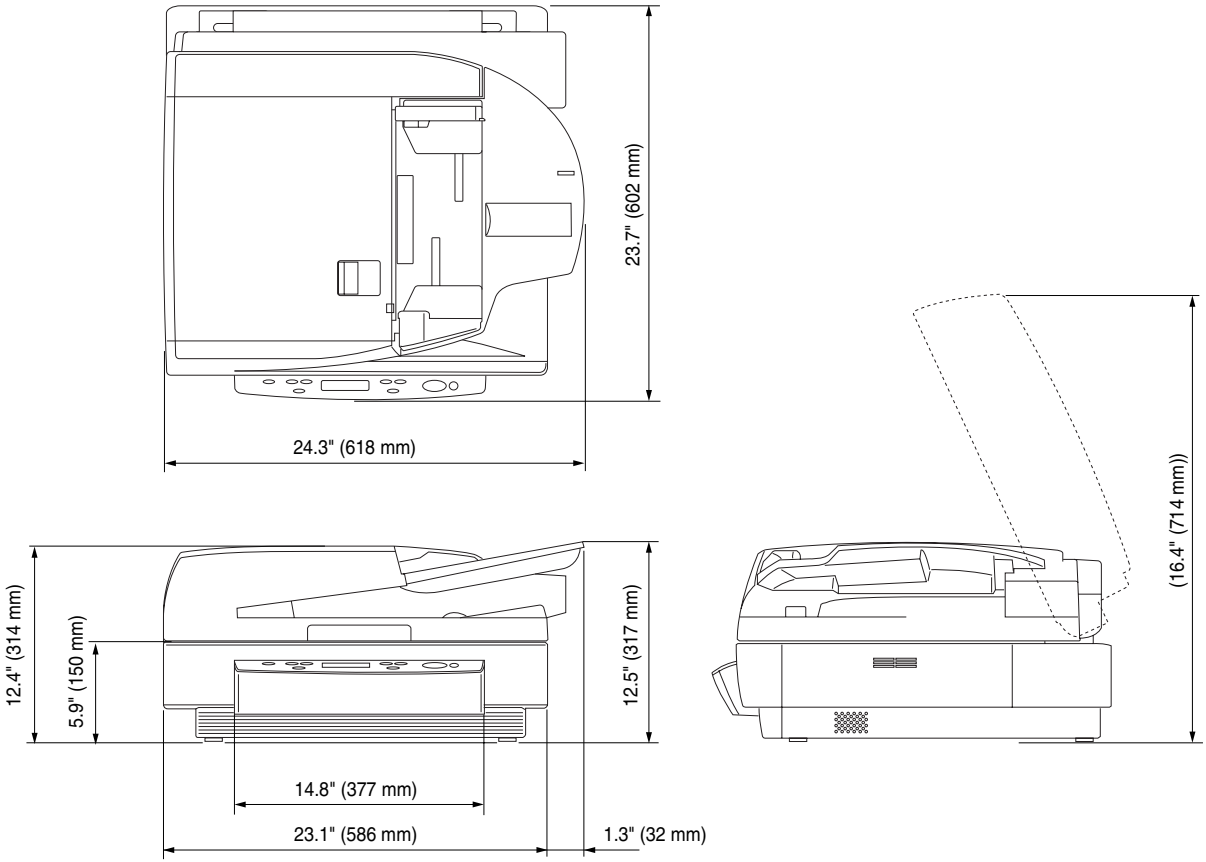
For replenishing the stamp unit.

Cleaning paper

Cleaning paper that is attached to the cleaning tool and used to clean the scanning area inside the feeder.

- For details about options and consumables, contact your sales representative or your service representative.

External Dimensions



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